Programming Instructions

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This Manual

This manual describes how to program the Baxall Pyramid System using the menu system. You should note, that the menu system is normally used for making *adjustments* once the Pyramid System has been installed using the Pyramid Installation Tool, PY-INS. Full information on the use of the Installation Tool is given in the document, Installation Instructions, Pyramid Installation Tool and Utilities Software.

If you are unfamiliar with the basic operation of the system, please refer to Manual 1a: Basic Operating Instructions, before you attempt to use the menu system.

It is assumed that your system hardware has already been installed correctly.

Warning

Important safety instructions are contained in section 1. These must be read before using your Pyramid System.

This manual is divided into four sections:

Section 1, **Important Safeguards**, contains vital safety information, including the Low Voltage Directive and EMC declaration, WARNINGS and CAUTIONS which must be observed when installing the unit.

Section 2, **The Pyramid System,** provides a brief description of the system.

Section 3, **Programming**, describes the menu system, which allows access to the system settings.

Section 4, **Keyboard Engineering Settings**, describes some settings that can be made from the keyboard.

Section 5, **Guidance Information**, provides additional information for using the programming facilities.

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1 Important Safeguards

This product is exclusively for use in CCTV applications and has no other purpose.

Read and Retain the Instructions - All the safety and operating instructions should be read before a unit is operated and should be retained for future reference.

Cleaning – Disconnect items of equipment before cleaning them. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Water and Moisture - Do not use the items of equipment near water. For example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or any area that is classified as a wet location.

Accessories - Do not place items of equipment on unstable stands, tripods, brackets, or mounts. A unit may fall, causing serious injury to a person and serious damage to the unit. Any mounting of units should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Ventilation - Openings in enclosures, if any, are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating, these openings must not be blocked or covered. Equipment should not be placed in a built-in installation unless proper ventilation is provided. Do not place it directly on other hot equipment, because this may increase its operating temperature.

Power Sources - Items of equipment should be operated only from the recommended power sources.

Power-cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, and the point where they exit from the appliance.

Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.

Object and Liquid Entry – This equipment must be protected from the ingress of foreign materials. Never push objects of any kind into openings in the equipment as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

Servicing – There are no user-serviceable parts. If you remove the covers, ensure that the power is off otherwise you may be exposed to dangerous voltages or other hazards, including moving mechanical parts. Refer all servicing to qualified service personnel.

Replacement Parts - When replacement parts are required, be sure the service technician has used the replacement parts specified by the manufacturer. Unauthorised substitutions may result in fire, electric shock or other hazards.

Safety Check - Upon completion of any service or repairs to a unit, ask the service technician to perform safety checks to determine that the unit is in a proper operating condition.

Surge Protection – All cables that may be affected by lightning, must be surge protected.

1.1 Safety

If you have any problems, please contact Baxall Security Ltd.

WARNING

Competent, qualified and experienced personnel must install this equipment. The installation must be in accordance with the country of installation's National Wiring Regulations

Refer to Baxall Security Ltd before using your system in a medical and/or intrinsically safe application.

Do not exceed the voltage and temperature limits given in the specifications. Only operate your system in a clean, dry, dust-free environment.

1.2 Damage Requiring Service

Refer your servicing to qualified service personnel under the following conditions:

- When a power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into a unit.
- If a unit has been exposed to rain or water.
- If a unit does not operate normally by following the operating instructions.
- If a unit has been dropped or the cabinet has been damaged.
- When a unit exhibits a distinct change in performance.
- If a unit has no power even when the power supply appears to operate correctly. If this is the case then ask a service engineer to test the internal fuse.

1.3 Safety and Electromagnetic Compatibility (EMC)

Do not operate a unit outside the voltage and temperature limits given in the specification.

This product is for use in general-purpose CCTV applications in a residential, commercial or light industrial EMC environment. Refer to your agent before installing or using the product in medical and/or intrinsically safe applications or in an industrial EMC environment.

WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case, the user may be required to take adequate measures.

The product must be installed in accordance with good installation practice, to enable the product to function as intended and to prevent problems. Refer to your agent for installation guidance.

Contact your agent to obtain a specification defining the acceptable levels of product degradation with regard to EMC immunity.

1.4 Manufacturer's Declaration of Conformance

The manufacturer declares that the product supplied with this document is compliant with the essential protection requirements of the EMC directive 89/336 and the Low Voltage Directive LVD 73/23 EEC. Conforming to the requirements of standards EN 55022 for emissions, IEC801 parts 2, 3 and 4 for immunity and BS415 superseded by EN60950 for Electrical Equipment safety.

1.5 Year 2000 Conformity

This Pyramid System, which contains date and time-aware components, has been tested in accordance with British Standards Institution, DISC PD2000-1, A Definition of Year 2000 Conformity Requirements.

2 The Pyramid System

The Pyramid system is a large video management system, used to switch cameras to monitors at your request. It also controls the movement of the cameras, controls VCRs and multiplexers and processes alarms.

A typical Pyramid system may consist of many components, connected via a network. These components may be viewed as building blocks, which enable the customer's current and future requirements to be met closely and economically. The individual components are the Matrix, Keyboards, AC receivers, DC receivers, Alarm input modules, Alarm output modules, Coaxial Telemetry Transmitters and Interfaces to System 7000. Pyramid caters for single and multi-site applications, which can be easily adapted and expanded to meet changing requirements. The system can have up to 144 cameras, 32 monitors, 1024 alarm inputs and 1024 alarm outputs. It has eight serial ports for connecting VCRs and multiplexers and a printer port for connecting a log printer. A simple, single-site system is shown in Figure 1.

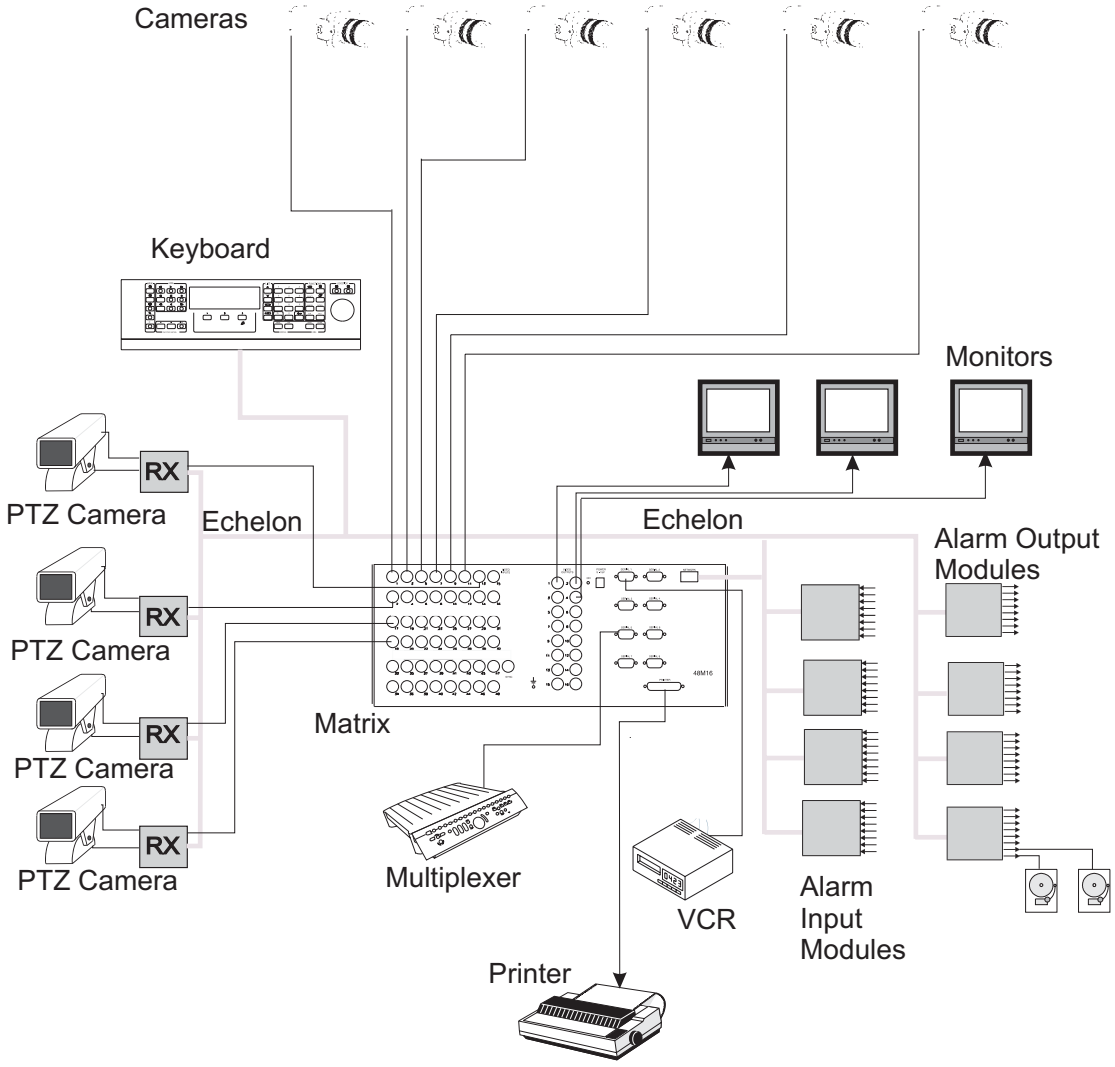


Figure 1 Simple, Single-site System

At the heart of the Pyramid system is the Matrix, PY-48M16. This enables any camera to be displayed on any monitor (known as cross-point switching). It is this device that stores the menu system and the configuration settings that you make on the system.

The Pyramid system can be easily customised, precisely to your requirements, using the menus provided. You can only access the menu system using a smart card which has been programmed to give menu access privileges. In the same way, the menu privileges can be restricted for different types of users, so that only the essential menu facilities are provided.

The menu system is displayed on a selected monitor and is accessed using the Pyramid keyboard. Using a combination of messages displayed on the keyboard's LCD (Liquid Crystal Display), keystrokes and the menus displayed on the monitor, you can configure the system.

The main facilities provided in the menu system are the following.

Programming New Smart Cards

New smart cards can be programmed. In doing so, you specify the user name, the user's priority, the keyboard and menu privileges and the PIN. If required, you can easily cancel the smart card.

Video Source Configuration

You can configure the system's video sources. To do this, you specify what type of source they are (e.g. camera – controllable or non-controllable, VCR or multiplexer) and what textual title they have.

Defining Synchronised and Non-synchronised Sequences

You can specify up to 16 sequences, each with 16 cameras, and each camera can have its own dwell time. In addition, you can define up to 16 synchronised sequences, each of which can contain up to 16 cameras. Synchronised sequences differ from normal sequences in that when several of them are set running at the same time on different monitors, they all switch from camera to camera at the same time, with the same dwell time.

Setting The Time And Date And Their Formats

You can specify, on a monitor by monitor basis, whether the time and/or date are to be displayed. You can choose a 12hr or 24hr time display and a DDMMYY or MMDDYY date format display.

Configuring Alarms

You have comprehensive control over what happens in the event of alarms. For each of up to 1024 alarm inputs, you can allocate one of up to 1024 definable "responses". The responses determine what the system does and what the operator sees. For each response, you can specify the alarm's priority, caption and whether the operator must intervene to remove it from the Active Alarm list. Up to eight camera/monitor pairs can be displayed when the alarm event occurs. Where cameras are controllable, up to eight can be sent to selected preset positions. You can specify commands that will be issued to the connected devices in the event of the alarm, for example, to control a VCR. Up to 3 alarm output contacts from up to 1024 different outputs can be activated by the alarm.

Configuring Serial Ports

You can set up the serial ports for connection to multiplexers and VCR's of selectable types.

Selecting The Printer Output

You can select what information is to be logged to your system's printer.

This manual tells you how to use the menu system facilities to make the changes that you require.

3 Programming Facilities

This section describes the menu facilities provided for programming the Pyramid System.

3.1 Using The Menu System

The Pyramid System has a comprehensive set of on-screen menus for configuring the system.

To use the menu system, you must log on using your smart card. In the description given below, it is assumed that you are using the Installer's smart card, which provides access to all of the menu facilities. If you are not using an Installer's smart card, you may not have access to all of the facilities. The keyboard layout is shown in Figure 2.

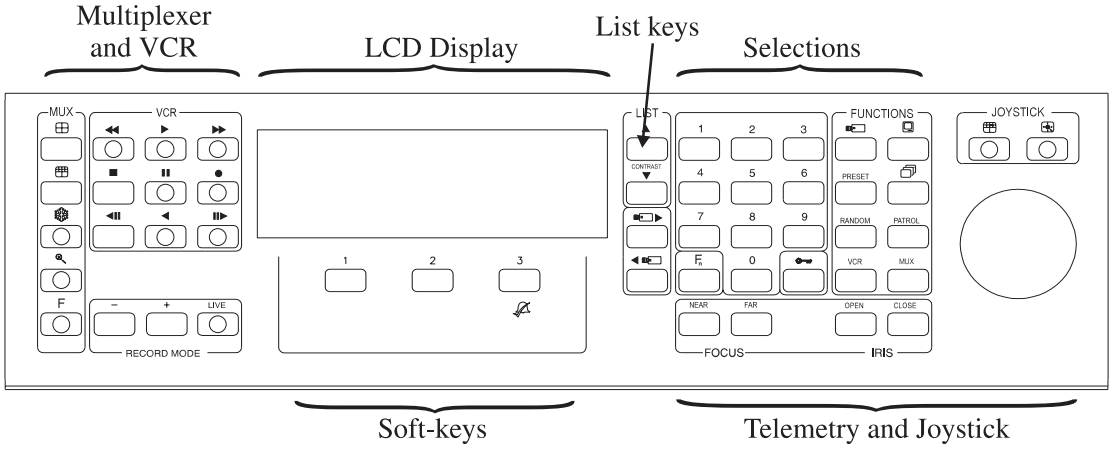
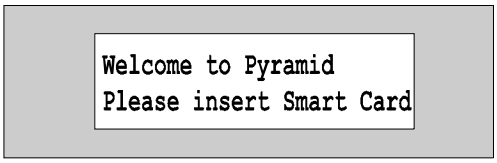
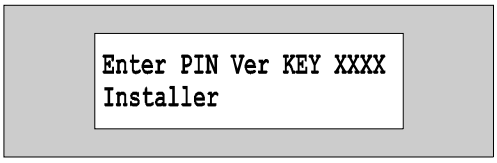


Figure 2 Keyboard Layout

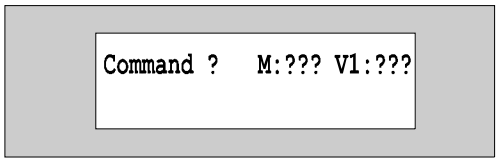
Before you have inserted your smart card, the keyboard displays:



Insert the Installer's smart card into the left-hand side of the keyboard. When you do this, the following keyboard message is displayed:

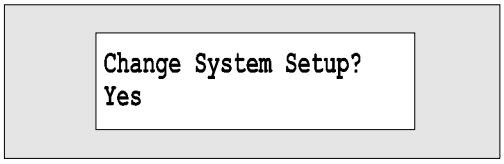


Type in the Installer's PIN using the numeric key pad on the right-hand side of the keyboard. When you have logged on, the following message is displayed:



Select the monitor which is to display the menu system by typing its number and pressing the Monitor key in the FUNCTIONS area to the right of the keyboard (see Figure 2).

Press the LIST up key ▲. The keyboard displays:



Press the Yes soft key to display the Pyramid System's **Main menu** (see page 20) on the selected monitor.

Note

You can only access the menu system immediately after you have logged on using the smart card. If you have already selected a camera, you cannot access the menu system unless you log on again to the system.

3.2 Menu Formats

In general, the menus have the following format:

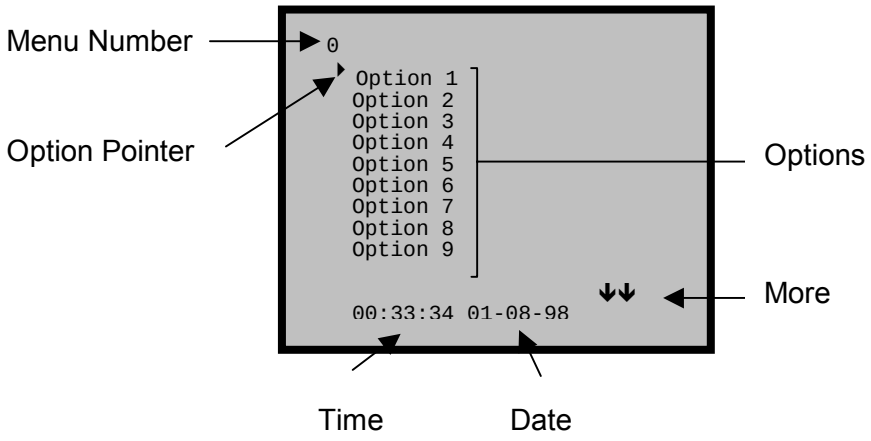


Figure 3 Menu Format

Menu Number

This helps you know where you are in the menu system. It is displayed as a series of numbers, separated by fullstops, made up from the logical option numbers you have selected to get to that menu, but excluding the menu number for the **Main menu** (menu number 0). For example, if option 2 was selected in the **main menu** and this displays another menu, this will have the Menu Number 2. If you select the first option in Menu Number 2 and this displays another menu, this will have the Menu Number 2.1 and so on.

Option Pointer

The option pointer ▸ is provided to enable you to point to menu items that you wish to select. You move the option pointer by using the up and down arrow keys ▲ ▼ in the LIST area of the keyboard (see Figure 2).

Options

These are text descriptions of the selectable facilities provided in the menu.

More

This symbol is displayed if the menu contains more options than can be displayed in a single screen. It is shown as ↓↓ at the bottom of the screen if there are options you can move downwards to and ↑↑ at the top of the screen if there are options that you can move upwards to. If the end options list is currently displayed, the symbol is displayed as ⊢.

Time and Date

Show the current date and time held in the system.

3.3 Navigating The Menu System

In general, the menus are lists of options that you can select. If you select the option, depending on the menu in question, you may get another menu displayed or you may need to type something on the keyboard.

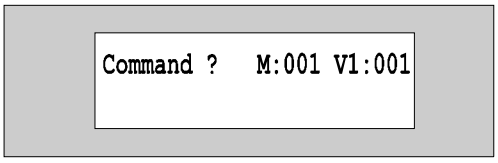
3.3.1 Soft Keys

The keys underneath the LCD display on the keyboard are referred to as soft keys (see Figure 2). These are used in conjunction with the menus displayed on the monitor, to help you use the menu system. Depending upon where you are in the menu system, they can have different functions allocated to them. The functions are indicated on the bottom line of the LCD.

The primary soft key functions are **ABORT**, **BACK** and **ENTER** for soft keys 1,2 and 3 respectively. These do the following:

ABORT

This ends the Change System Setup Session. The changes that you have made to the setup are retained. When you have ABORTed the session, the keyboard LCD shows the following message:



Note

If you have ABORTed a session, and you have not selected a camera on the keyboard, you can start a new Change System Setup Session without having to log on again.

BACK

This takes you back to the previous menu, unless the **main menu** (Menu Number 0) is currently on display, in which case, BACK has no affect.

ENTER

This is used to select menu options.

3.3.2 Selecting Menu Options

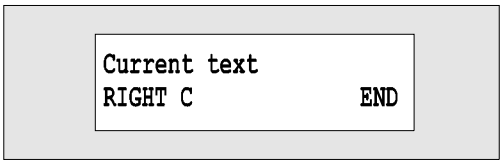
In general, you select options from the menus by doing the following.

1) Move the option pointer ▸ to the option that you require using the up and down arrow keys ▲ ▼ in the LIST area of the keyboard (see Figure 2).
2) Press the **ENTER** soft key (soft key 3).

Every new session starts with the **main menu** (menu number 0). When you have selected an option from the **main menu**, you usually get another menu displayed. In this, you may be selecting other options that again may display a further menu. In other cases, you will be typing in values, or selecting alternatives.

3.3.3 Specifying Text

Some of the menus that you will use require that you input items of text. For example, you may need to specify a user name or a video source name. In general, you select the item in the menu, and it starts flashing. At the same time, you are presented with a message, displayed on the keyboard's LCD display, which has the following format:



RIGHT and **END** are the current functions of soft keys 1 and 3 respectively. These operate in the following way:

Soft key	Name	Function
1	RIGHT	press once to move one character to the right
2	-	-
3	END	finish the text **before the current character position** and show it in the monitor menu

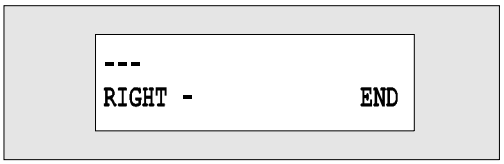
You edit the User name in the following way:

1) To the right of the soft key text **RIGHT** in the keyboard display, is displayed the first character of the *Current text* . To change it, use the up and down arrow keys ▲ ▼ in the LIST area of the keyboard (see Figure 2). This will cycle through the lower case alphabet and the characters + - : . = and space.

2) You can change from lower case to an upper case alphabet by pressing the previous camera key ◄ (at the bottom of the LIST area of the keyboard) twice.
3) To change from an upper case alphabet to a lower case one, press the previous camera key ◄ once.
4) To insert a space, if you are currently using the lower case alphabet, press the previous camera key once and press the up or down arrow key ▲▼. If you are in the uppercase alphabet, press the previous camera key twice and press the up or down arrow key ▲▼. If you have inserted a space in this way, pressing the previous camera key once and pressing the up or down arrow key ▲▼ will select the upper case alphabet. If you press the previous camera twice and press the up or down arrow keys ▲▼, this selects the lower case alphabet.
5) As you select each character in the user name, press the RIGHT soft key to move to the next character position.
6) When you have finished specifying the text, press the RIGHT soft key once then press the END soft key. This will display the text in the menu.

3.3.4 Specifying Numbers

Some of the menus that you will use require that you input numerical items. For example, you may need to specify a Priority or Pin number if you are programming a smart card. In general, you select the item in the menu, and it starts flashing. At the same time, you are presented with a message, displayed on the keyboard's LCD display, which has the following format:



RIGHT and **END** are the current functions of soft keys 1 and 3 respectively. These operate in the following way:

Soft key	Name	Function
1	RIGHT	press once to move one character to the right
2	-	-
3	END	finish the number **at the current character position** and show it in the monitor menu

To specify the number, type all the digits of the number on the numeric area of your keypad and press the END soft key.

3.3.5 As You Make Changes

In general, the configuration changes that you make using the menus are stored in the matrix in non-volatile memory as you make them. The exceptions to this are when you use menus that contain **store** options e.g. store configuration and store alarm. In these cases, the changes are not stored in the matrix until the store option has been selected.

3.4 The Available Menus

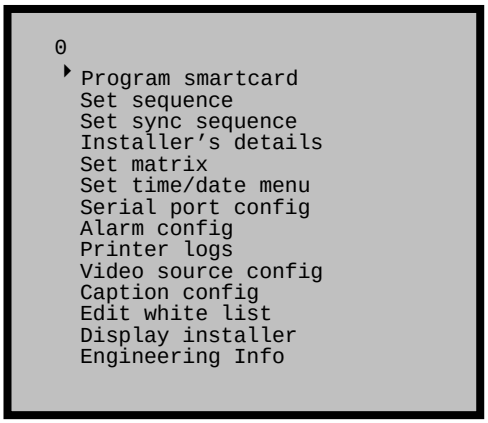
In this section, the menus are shown in a simplified format without the time and date. Where there are too many options to display at once on the screen and in practice, you would scroll them to view them all, these are simply shown as a complete and continuous list.

In the description, it is assumed that the Installer smart card is being used, and that all of the facilities can be accessed. However, if you are using a different card, not all the facilities will necessarily be available.

3.4.1 The Main Menu

The **main menu** is a list of the programmable options. The programmable options provided are described in detail in the rest of section 3.4. You should read the corresponding section in the manual *before* starting to program the options in the menus.

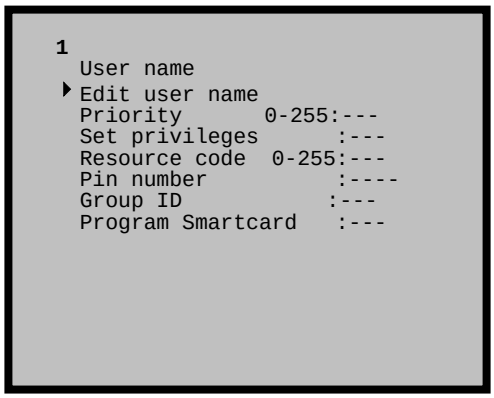
The **main menu** has the following options:



3.4.2 Program Smartcard

Access to the Pyramid system is controlled using smart cards. This option lets you program those smart cards. In doing so, you specify the user name, the user's priority, the menu and keyboard privileges, the resource code, the PIN that must be entered at log on and the group ID.

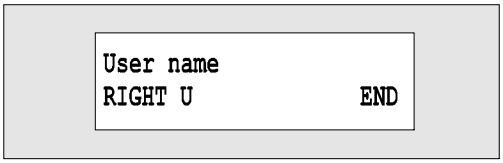
When you select this option, the **Program smart card** menu is displayed:



Edit User Name

This option allows you to specify the user name for the card. This is displayed on the keyboard LCD each time the card is inserted into the reader.

When you select **Edit user name**, the current user name at the top of the menu flashes and the keyboard LCD displays a message similar to the following:



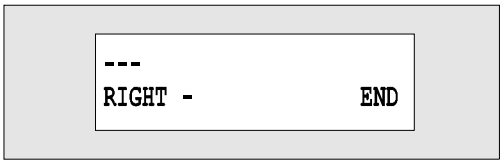
Edit the User name as described on page 18. When you have finished, it is displayed at the top of the **Program smart card** menu.

Note

The user name that you specify for the smart card is added to the "white list" see page 73.

Priority

This option enables you to allocate a priority to a user. The priority is used to resolve operational conflicts. For example, if more than one user attempts to control the same PTZ camera at the same time, the user with the highest priority gains control. When you select **Priority**, the following keyboard message is displayed:

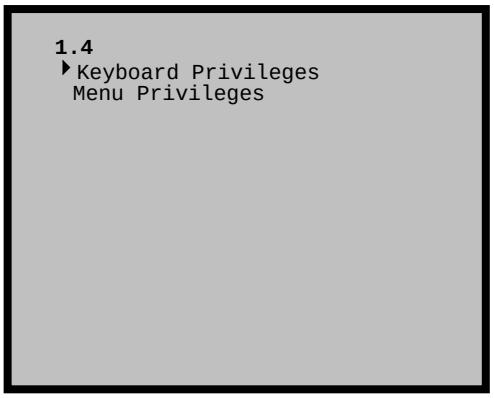


The priority must be a number in the range 0 to 255. The higher the number, the higher is the priority. Input the priority as described on page 19.

Set Privileges

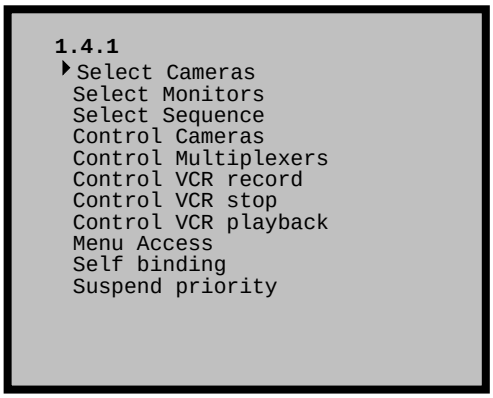
This option allows you to allocate to the user, access rights to the keyboard and menu facilities.

When you select **Set privileges**, you get the **Set privileges** menu:



Keyboard Privileges

Select Keyboard privileges, which displays the following menu:



To specify the keyboard privileges, move the option pointer using the up and down arrow keys ▲ ▼ to each privilege which is required, and press the ENTER soft function key. As you select each item, a + character is inserted to the left of the option's text to show that it has been selected (that is, access has been granted).

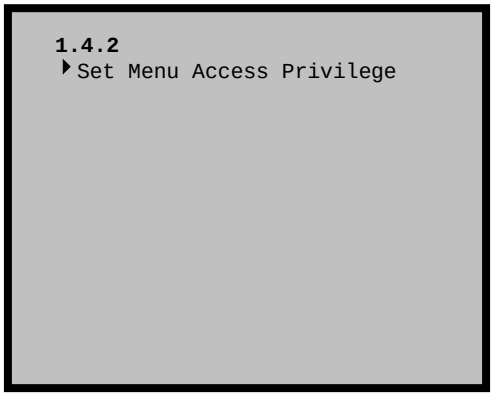
When you have selected all of the privileges, press the BACK soft function key to return to the **Set Privileges** menu.

Note

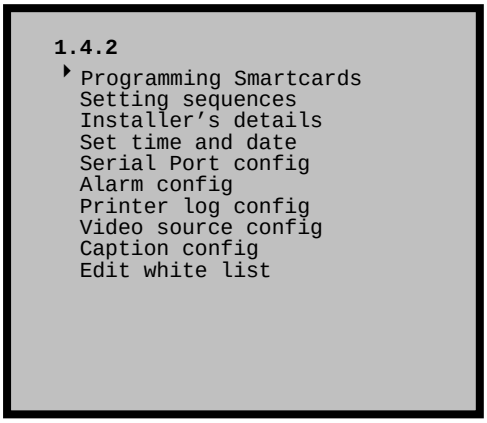
When the user of the smart card attempts to use a keyboard facility to which access has not been granted, the keyboard LCD displays the following message:

Menu Privileges

Select Menu privileges in the **Set privileges** menu. If you did not select Menu Access as a keyboard privilege (see above) the following menu is displayed:



Press the ENTER soft key and the **Keyboard privileges** menu is displayed with the option pointer positioned at the Menu Access option. Press the ENTER soft key to select Menu Access and press the BACK soft key to display the **Menu privileges** menu:



To specify the menu privileges, move the option pointer using the up and down arrow keys ▲ ▼ to each privilege which is required, and press the ENTER soft function key. As you select each item, a + character is inserted to the left of the option's text to show that it has been selected (that is, access has been granted).

When you have selected the required privileges, press the BACK soft function key to return to the **Set Privileges** menu.

Press the BACK soft key again to return to the **Program smartcard** menu. The Set privileges field displays the text OK when the privileges have been set.

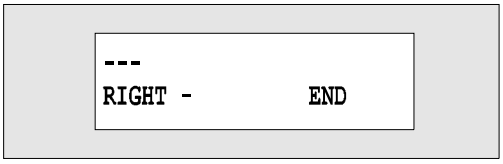
Note

When the smart card is used, only the menu options to which access has been granted will be displayed, plus the Display installer and Engineering Info options.

If the user is to access to the menu system, access to **Select Monitors** in the keyboard privileges must also be granted.

Resource Code

This item is reserved for future development and does not currently affect the operation of the system. However, a number must be entered to enable the programming of the smart card to be completed. When you select **Resource code**, the following is displayed:

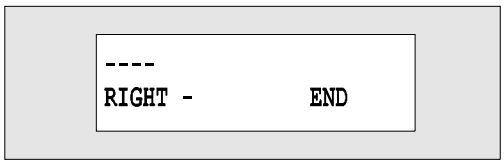


The Resource code must be a number in the range 0 to 255. Input the Resource code as described on page 19.

Pin Number

This option allows you to specify the PIN (Personal Identification Number) that must be entered each time the card is used to log on to the system.

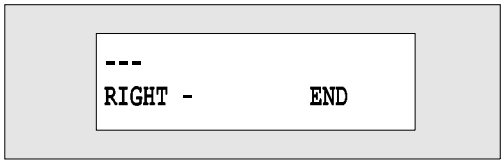
When you select **Pin number**, the following is displayed:



It recommended, for security reasons, that the PIN should always be 4 digits. Input the PIN as described on page 19. When you have finished, the Pin number field is set to **** in the **Program smartcard** menu.

Group ID

This item is reserved for future development and does not currently affect the operation of the system. However, a number must be entered to enable the programming of the smart card to be completed. When you select **Group ID**, the following is displayed:

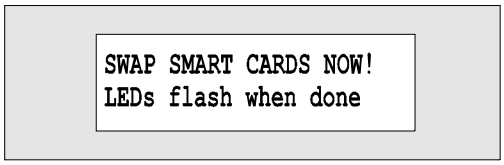


Group ID must be a number in the range 0 to 255. Input the Group ID as described on page 19.

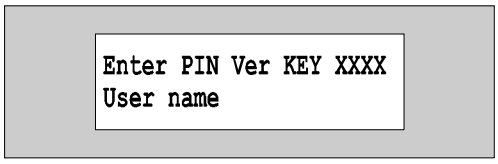
Program Smartcard

When you have specified all of the options for the card, the text OK is displayed in the **Program Smartcard** field. To record the options on a new card, select the Program Smartcard option and press the ENTER soft key.

The following message is displayed on the keyboard:



Remove your smart card from the keyboard and insert the new one to be programmed. When the LEDs flash, the process is complete and the following message is displayed on the keyboard:



The user name is as you specified when programming the smartcard.

Note

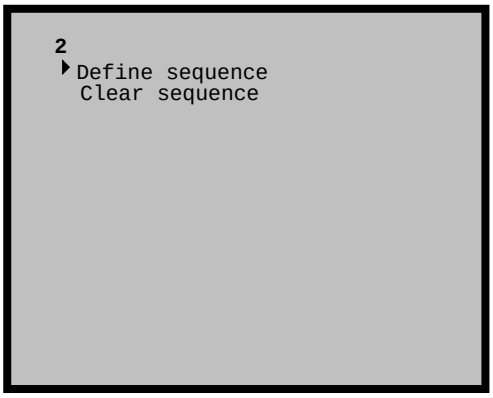
Do not remove your smart card and reinsert it, unless you want to reprogram it with the new card details.

It is recommended that details of each smart card are recorded, and kept in a secure place for future reference. An example form is provided in Appendix A.

3.4.3 Set Sequence

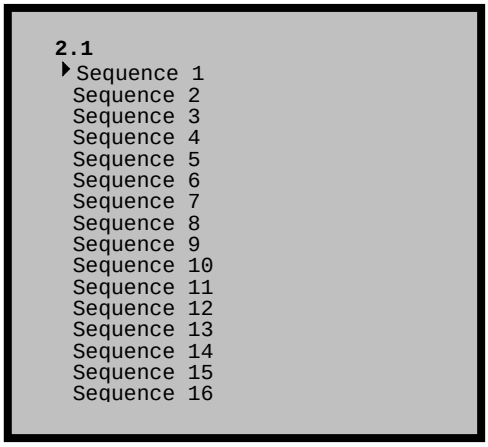
This option lets you program camera sequences for the Pyramid System. You can specify up to 16 sequences, each with 16 cameras. In doing so, you select a sequence number, the sequence of cameras and the dwell time for each camera.

When you select this option, you get the **Set sequence** menu:

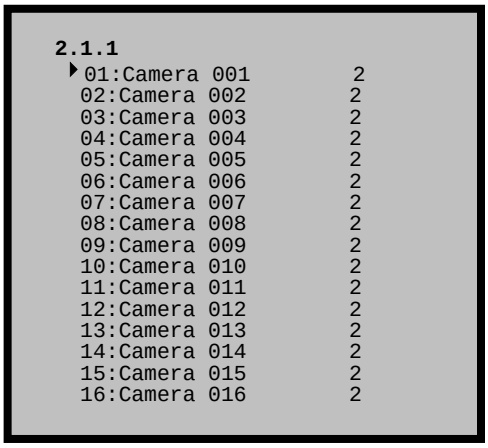


Define Sequence

Select the Define sequence option and the **Sequence** menu is displayed:



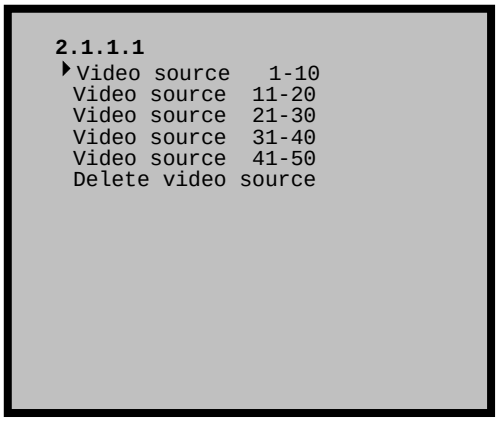
Select the sequence that you wish to edit and you get the a display similar to the following:



In this example, sequence 1 has already been defined and contains cameras 001 to 016 which respectively, have the selected dwell times of two seconds.

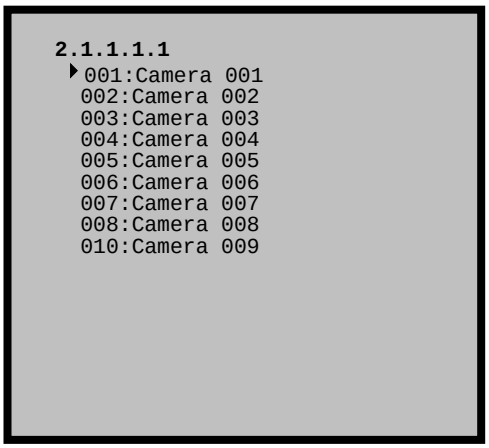
Video Source Range Menu

Select the sequence entry that you wish to edit and a **Video source range** menu similar to the following is displayed:

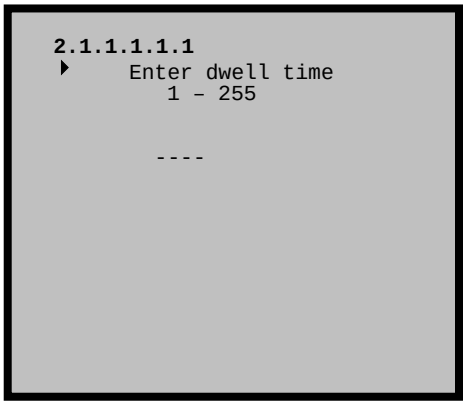


Adding a Video Source

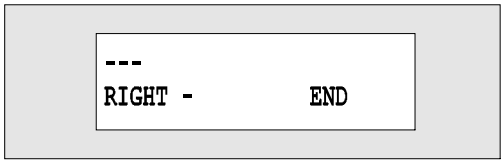
Select the video source range that contains the required camera. For example, if you want camera 003, choose Video source 1-10 and you get the range displayed:



Select the Camera that is to be added to the sequence. This displays the **Dwell Time** menu:



At the same time the keyboard displays:



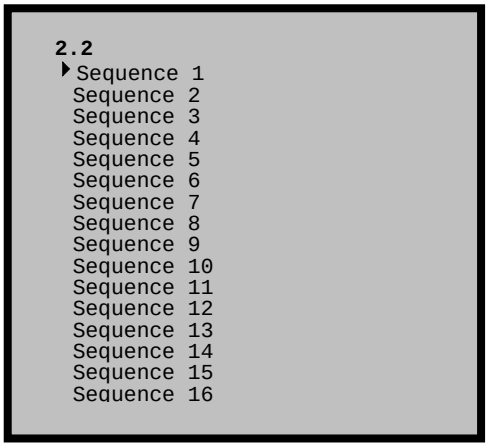
The dwell time must be a number in the range 1 to 255. Input the dwell time as described on page 19.

Deleting a Video Source

To delete a video source, select the item in the required sequence and select Delete video source in the **Video source range** menu. The video source is deleted and the sequence is displayed again.

Clear Sequence

To clear an entire sequence, select Clear sequence from the **Set sequence** menu. This displays the **Sequence** menu:



Select the sequence and press the ENTER soft key. The sequence is cleared (that is, all of the video sources are removed from the sequence) and you are returned to the **Set sequence** menu.

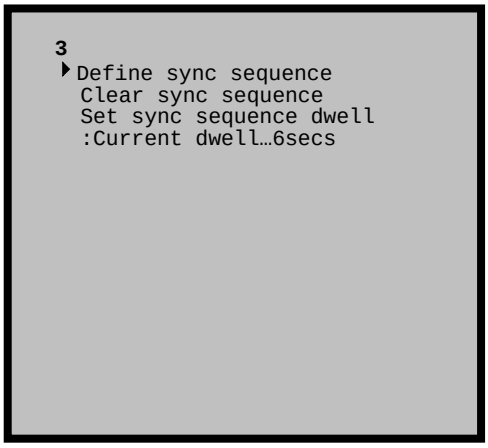
Additional Note

You can define up to 16 sequences and up to 16 synchronous sequences. When you run them (see Manual 1a: Basic Instructions, Pyramid Systems), synchronous sequences are selected by specifying numbers 17 to 32. Non-synchronous sequences are selected by specifying numbers 1 to 16.

3.4.4 Set Sync Sequence

This option lets you define up to 16 synchronised sequences, each of which can contain up to 16 cameras. Synchronised sequences differ from normal sequences in that when several of them are set running at the same time on different monitors, they all switch from camera to camera at the same time, and with the same dwell time.

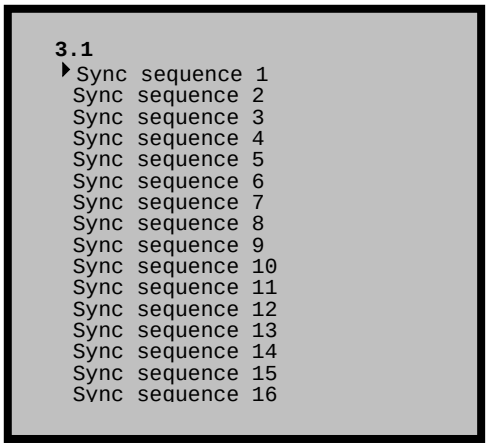
To set up synchronised sequences, select Set sync sequence from the **main menu**. This displays the **Set sync sequence** menu:



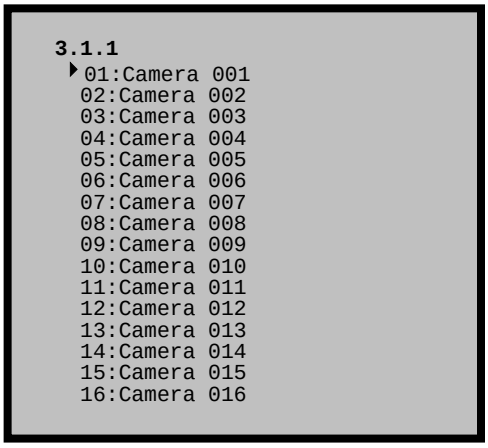
In this example, the current dwell time for the synchronised sequences is set to 6 seconds.

Defining A Synchronised Sequence

Select Define sync sequence from the **Set sync sequence** menu. The **Sync sequence** menu is displayed:



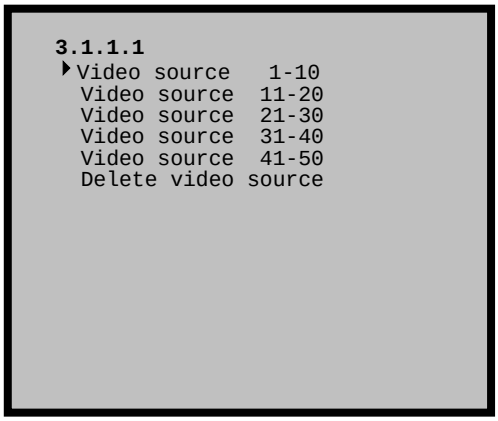
Select the Sync sequence that you wish to edit and press the ENTER soft key. You get the a display similar to the following:



In this example, sequence 1 has already been defined and contains cameras 001 to 016.

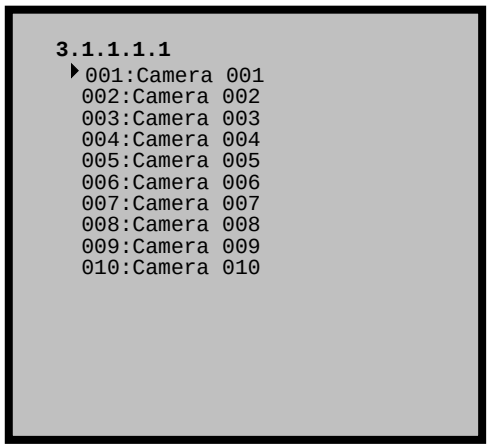
Video Source Range Menu

Select the Sync sequence entry that you wish to edit and you get a **Video source range** menu similar to the following:



Adding a Video Source

Select the video source range that contains the required camera. For example, if you want camera 003, choose Video source 1-10 and you get the range displayed:



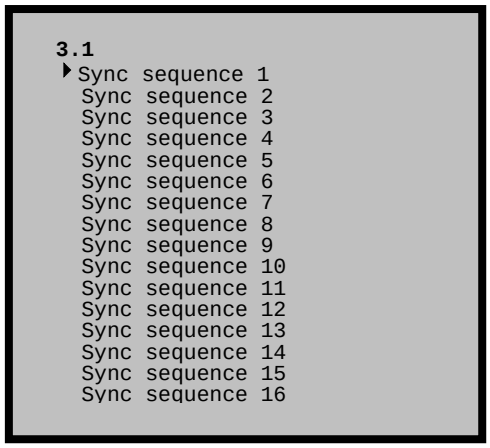
Select the Camera that is to be added to the sync sequence and press the ENTER soft key. This adds the camera to the sync sequence and displays the sync sequence again.

Deleting a Video Source

To delete a video source select the camera in the required sync sequence and select Delete video source in the **Video source range** menu. The video source is deleted and the sync sequence is displayed again.

Clear Sync Sequence

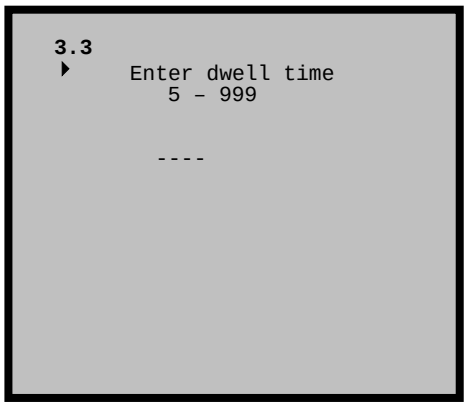
To clear a Sync sequence select Clear sync sequence from the **Set sync sequence** menu. This displays the **Sync sequence** menu:



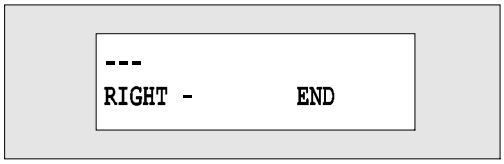
Select the Sync sequence and press the ENTER soft key. The sync sequence is cleared and you are returned to the **Set sync sequence** menu.

Sync Sequence Dwell Time

To set the dwell time for your synchronised sequences, select Set sync sequence dwell time from the **Set sync sequence** menu. This displays the following:



At the same time the keyboard displays:



The dwell time must be a number in the range 5 - 999. Input the dwell time as described on page 19. The **Set sync sequence** menu is displayed with the new dwell time shown.

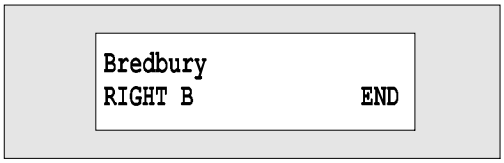
Additional Note

You can define up to 16 sequences and up to 16 synchronous sequences. When you run them (see Manual 1a: Basic Instructions, Pyramid Systems), synchronous sequences are selected by specifying numbers 17 to 32. Non-synchronous sequences are selected by specifying numbers 1 to 16.

3.4.5 Installer's Details

This option allows you to specify the installer's name and address. When you select it, you get the **Installer's details** menu:

If the Installer's details have been input already, the details are displayed. To edit a line in the installer's details, select the required line. The text in the line (e.g. Bredbury), flashes and the keyboard LCD displays a message similar to the following:



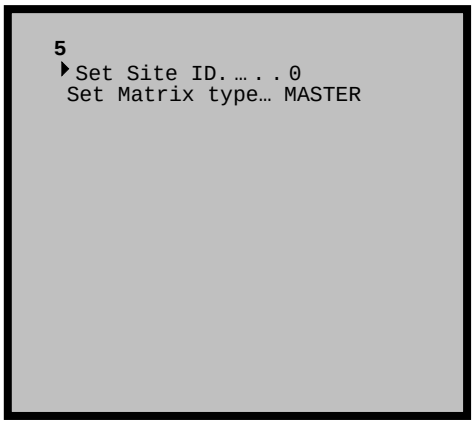
Edit the text as described on page 18.

When you have finished editing the Installer's details, press the BACK soft key to return to the **main menu**.

3.4.6 Set Matrix

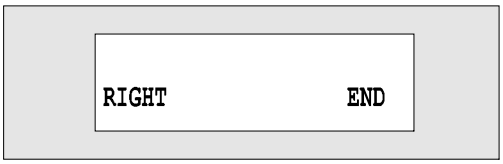
This option enables you to set the Site ID, to set the matrix type as Master or Output Expander, and for an output expander, to specify the master matrix which it expands (its parent).

When you select this option, you get the **Set matrix** menu:



Set The Site ID

Select the Set Site ID option from the **Set matrix** menu. The keyboard will display:



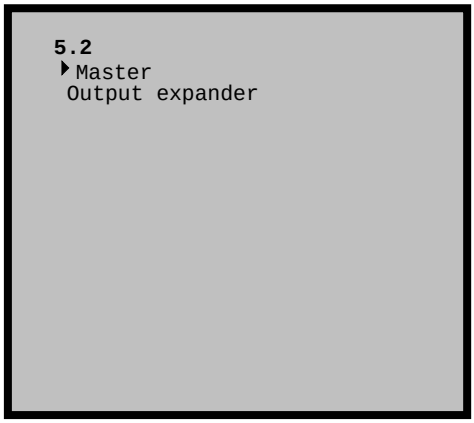
Specify the site ID number as up to five digits, see page 19.

Note

The site ID is used in systems that have networked multiple master matrices, to enable the keyboard to access any one of those matrices.

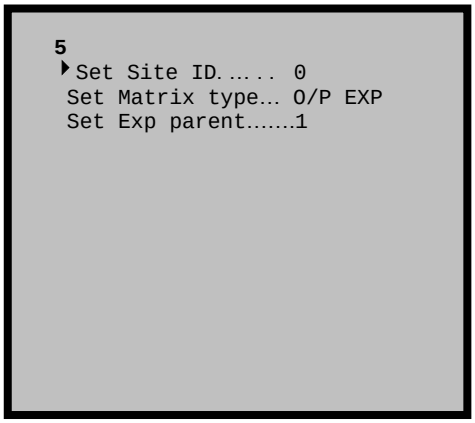
Set The Matrix Type

Select the Set Matrix type option from the **Set Matrix** menu. The **Set Matrix type** menu is displayed:

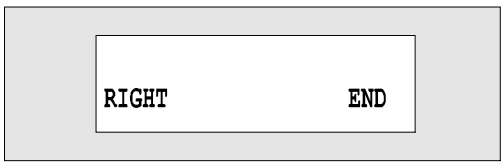


For a Master matrix, select the Master option. You are returned to the **Set Matrix** menu, with the Set Matrix type field set to MASTER.

For an output expander unit, select Output expander. You are returned to the **Set Matrix** menu, with the Set Matrix type field set to O/P EXP. An additional Set Exp parent option is displayed:



To specify the Expander's parent, select the Set Exp parent option. The keyboard displays:



Type in a number in the range 0 to 6, see page 19.

Note

You should take care not to set a Master Matrix to an Output expander in error. If you do this, the next time you try to use the menu system, you will get a **Monitor not known** message on the keyboard. If this happens, you must do one of two things. Either:

1) Log on to the keyboard, select monitor 17 before you press the up arrow key in the LIST area of the keyboard, and to use the menu system to set the matrix back to MASTER. Next time you use the menu system, you select monitor 1 as usual.

Or

2) Reset the matrix to the default factory settings. To do this, type 251 and press the function key Fn. Switch off the power to the matrix and switch the power on again. As the matrix boots up, it will show a blue introduction screen with a series of numbers and letters displayed in the top right corner. When it has finished booting up, it will return to displaying video pictures. You can then log on to the keyboard and use your menu system in the normal way again.

Caution

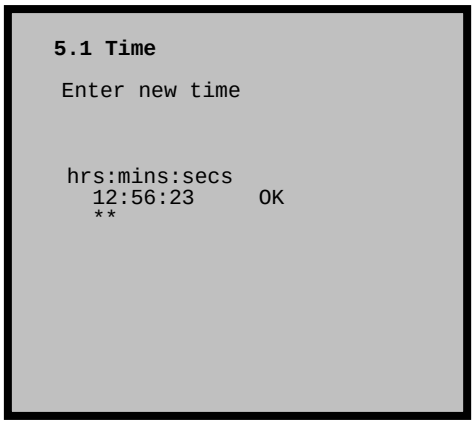
Resetting to the default factory settings means that any configuration information that you have already specified will be lost.

3.4.7 Set Time/Date Menu

This option allows you to set the time and date. When you select this option, you get the Time/Date Menu:

Time

To set the time, select Set Time and the **Time** menu is displayed:



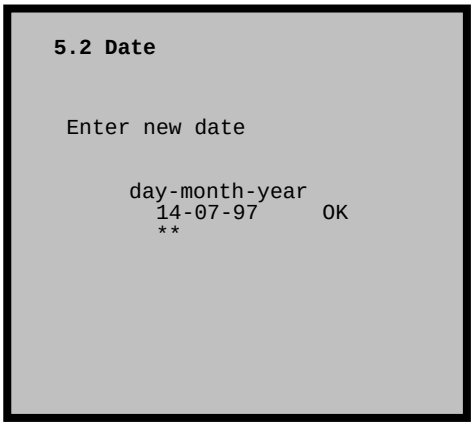
The asterisk characters ** enable you to select each part of the time (hours, minutes and seconds) in turn so that you can change them. In the above example, the asterisk characters are located under the hours part of the time. If you do not wish to change the hours press the ENTER soft key and the asterisks move to the minutes part of the time. If you do wish to change the hours, use the up and down arrow keys ▲ ▼ in the LIST area of the keyboard (see Figure 2), then press the ENTER soft key. Do this for each time field, and the asterisk characters will be located under OK. To set the time at the specified value, press the ENTER soft key and you are returned to the **Set time/date** menu. This will show the new time, which will be incremented by the time it takes to display the menu.

Note

It takes a few seconds to specify all of the time fields. Therefore, you should specify a time that is, say, 2 minutes in the future and ensure that the asterisk characters ** are located under OK. Then, with reference to the clock that you are using to set the time against, press the ENTER soft key as that clock shows the time that you have specified.

Date

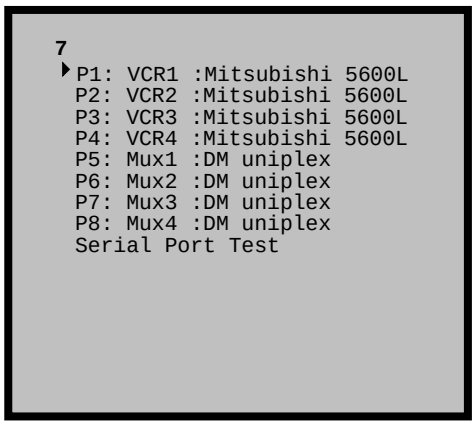
To set the date, select the Set Date option and you get the Date Menu:



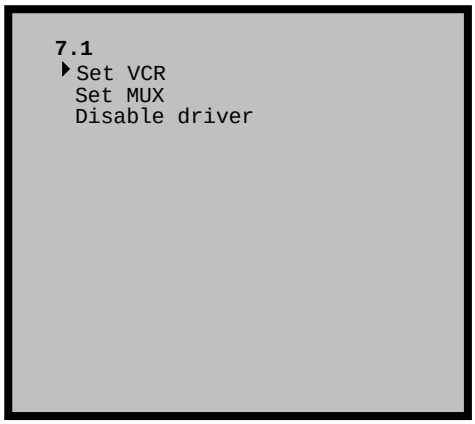
The asterisk characters ** enable you to select each part of the date (day, month and year) in turn so that you can change them. In the above example, the asterisk characters are located under the day part of the date. If you do not wish to change the days press the ENTER soft key and the asterisks move to the months part of the date. If you do wish to change the days, use the up and down arrow keys ▲ ▼ in the LIST area of the keyboard (see Figure 2), then press the ENTER soft key. Do this for each date field, and the asterisk characters will be located under OK. To set the date at the specified value, press the ENTER soft key and you are returned to the **Set time/date** menu which will show the new date.

3.4.8 Serial Port Config

This option allows you to configure the system's serial ports. You need to do this so that the correct device driver is allocated to the port. When you select the option, you get the **Serial port config** menu:

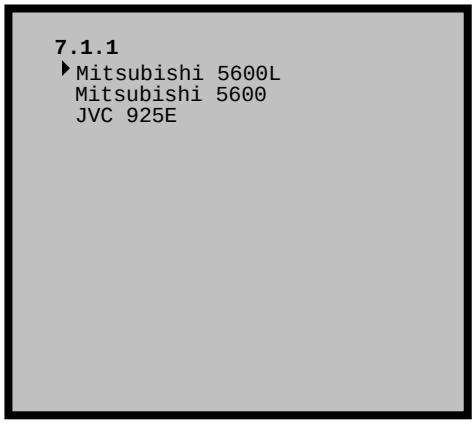


To configure a port, select the port and press the ENTER soft key. The **Select driver** menu is displayed:



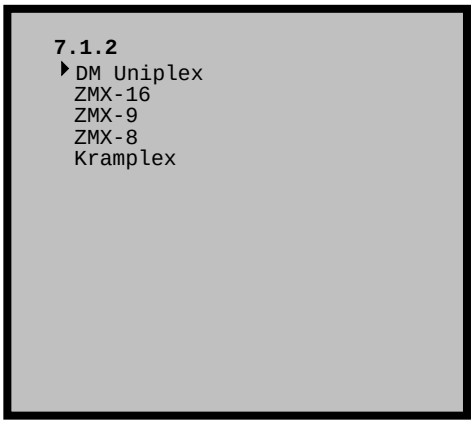
Set VCR

If the port is to be used for a VCR, select Set VCR. This displays the **video options** menu:



Set MUX

If the port is to be connected to a multiplexer, select Set MUX in the **Select driver** menu. This displays the **Multiplexers** menu, which is similar to the following:



Select the option that you require and press the ENTER soft key to return to the **Select driver** menu.

Disable Driver

If the port is not going to have a driver associated with it, select the Disable driver option in the **Select driver** menu and press the ENTER soft key. The **Serial port config** menu is displayed with the selected port field showing **No device**.

Note

There is no operational reason to disable a driver for a port if nothing is connected to that port. However, if you do take the trouble to disable the drivers for unused ports, the **Serial port config** menu can be used as a quick reference to see what is currently connected to the system.

Serial Port Test

Note

This test is provided for use by qualified test/maintenance personnel only. Loopback connectors must be inserted in the serial ports to perform the test.

Select the Test serial ports option in the **Serial port config** menu. While the test is under way, the text Testing… is displayed. When the test is complete, a Serial Port Test Results report is displayed for all the ports, which are shown as having passed or failed.

To return to the **Serial port config** menu, press the ENTER or BACK soft key.

3.4.9 Alarm Config

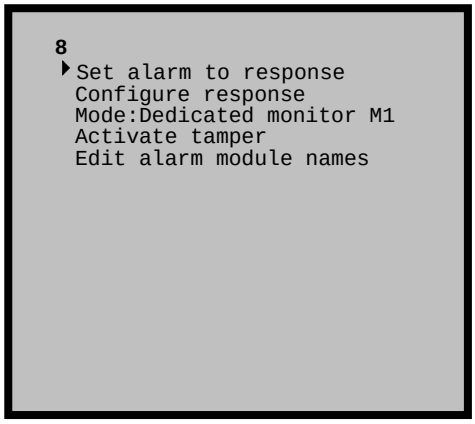
The Pyramid system has very flexible facilities for alarm configuration. You can specify an overall setting that determines the way that the alarms are to be displayed on the monitor(s). This is done by setting the alarm display mode. The options available are Dedicated Alarm Monitor Mode, Display Stacking Mode and Camera Monitor Pairing. Because it affects the way that you configure the rest of the alarm system, you need to decide which mode you are going to use before you configure your alarms at the detailed level. For an explanation of these modes, see page 59.

At the detailed level, the underlying approach is to have a “library” of system responses, where each response is a specification of what the system will do in the event an alarm. You can define up to 1024 different responses. For each alarm input on your system, you can select any one of the responses to be associated with it. You can, if you require, associate the same response to more that one alarm input. When an alarm event occurs, the system will react according to the specification in the response that is associated with the alarm input.

Note:

To help you to manage your Alarm configuration, you are recommended to make a record of all your alarm inputs and response settings, as you configure them. An example form for this purpose is provided in Appendix B.

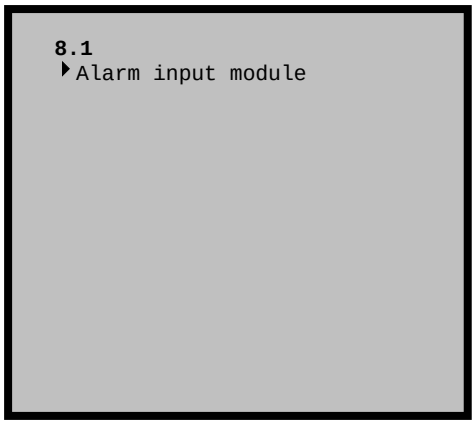
To configure the alarms on your system, select Alarm config from the **main menu**. This displays the **Alarm config** menu:



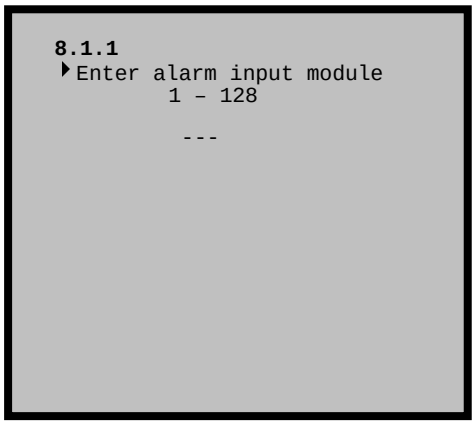
Set Alarm To Response

This option allows you to allocate a particular response to a selected alarm input (see page 46 for the configuration of responses).

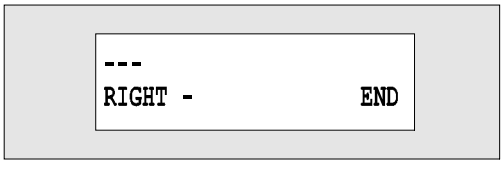
To allocate a response to an alarm input, select Set alarm to response from the **Alarm config** menu. The **Set alarm to response** menu is displayed:



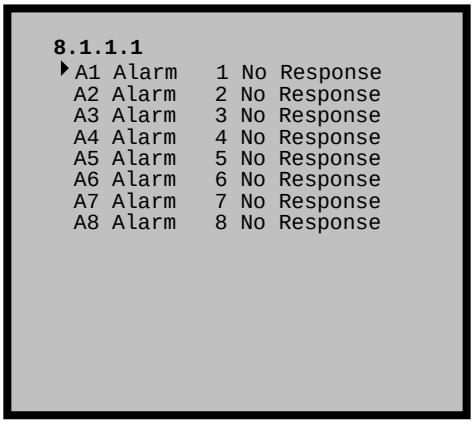
Press the ENTER soft key. This displays the following menu:



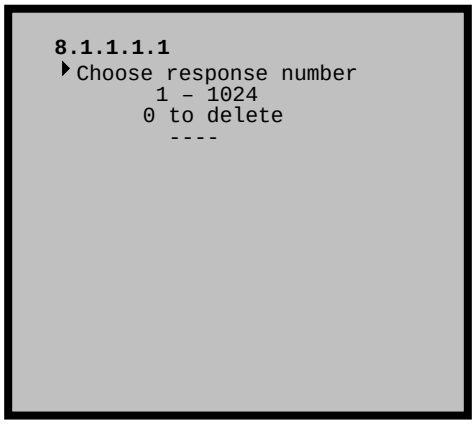
At the same time the keyboard displays:



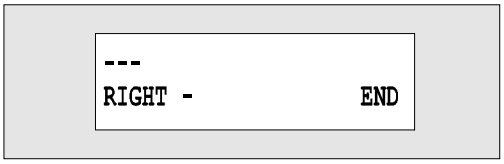
The alarm input module identifier must be a number in the range 1 - 128. Specify the alarm input module number as described on page 19. The **alarm** menu for the selected alarm module is displayed:


8.1.1.1
A1 Alarm 1 No Response
A2 Alarm 2 No Response
A3 Alarm 3 No Response
A4 Alarm 4 No Response
A5 Alarm 5 No Response
A6 Alarm 6 No Response
A7 Alarm 7 No Response
A8 Alarm 8 No Response

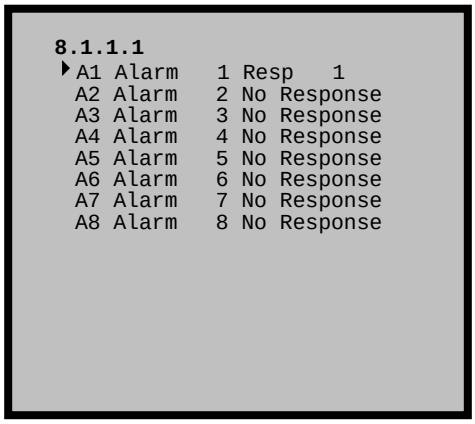
Select the alarm input that you require and press the ENTER soft key. The **response number** menu is displayed:



This menu allows you to allocate a response number to the selected alarm. At the same time, the keyboard displays:



The response number must be a number in the range 1 - 1024. Input the response number as described on page 19. The **alarms** menu is displayed again showing, for example:


8.1.1.1
A1 Alarm 1 Resp 1
A2 Alarm 2 No Response
A3 Alarm 3 No Response
A4 Alarm 4 No Response
A5 Alarm 5 No Response
A6 Alarm 6 No Response
A7 Alarm 7 No Response
A8 Alarm 8 No Response

In this case, Alarm 1 on alarm input module 1 has been set to Resp 1.

Continue selecting the alarms and associating the responses as you require for the selected module. When you have finished, press the BACK soft key to return to the **Set alarm to response** menu.

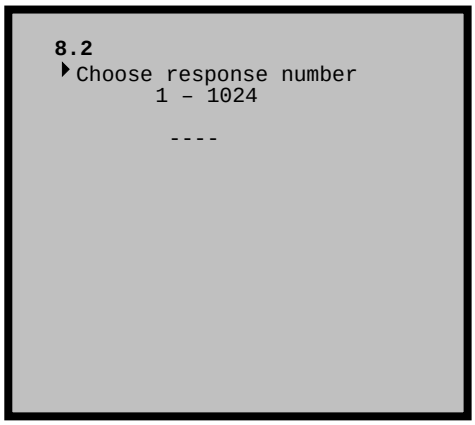
When you have finished associating responses with all the alarms, press the BACK soft key when the **Set alarm to response** menu is displayed to return to the **Alarm config** menu.

To disassociate the alarm from a response, select the alarm and specify the response number as 0.

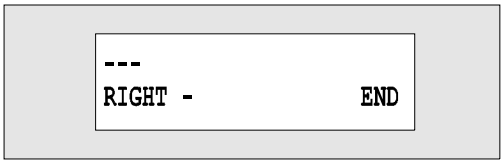
Configure Response

This option is used to specify (configure) each of the responses.

Select the Configure response option from the **Alarm config** menu. The **Configure response** menu is displayed:

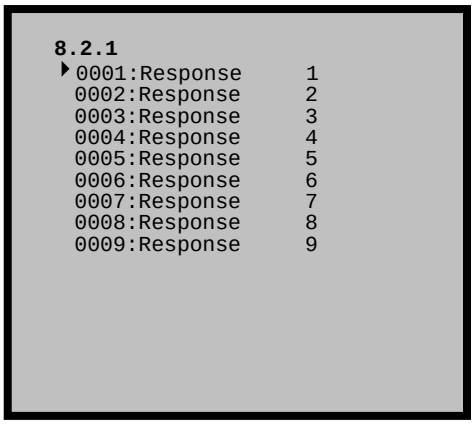


This menu allows you to choose the response that you wish to configure. The keyboard displays the following:

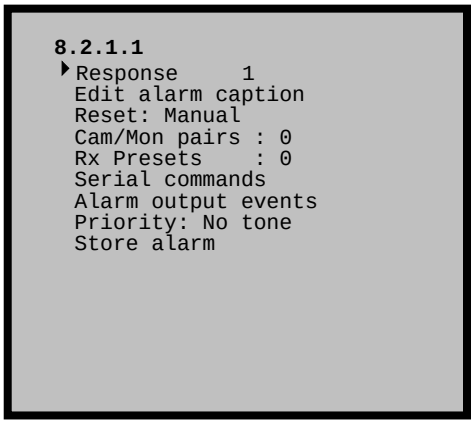


The response number must be a number in the range 1 to 1024. Input the response number as described on page 19.

The **response list** menu is displayed. If for example, response number 1 was selected, it would show:



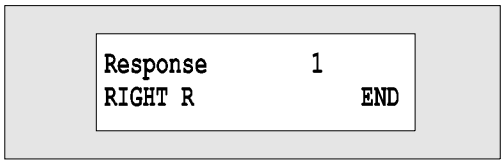
Select the response required, and press the ENTER soft key. This displays the **response definition** menu. For response 1, this would look similar to the following:



Edit Alarm Caption

The alarm caption specifies the text that is displayed, for example, in the Active Alarm list when the alarm event occurs.

Select Edit alarm caption in the **response definition** menu. The current caption (in this case Response 1) flashes and the keyboard displays the following:



Edit the text as described on page 18. When you have finished, the text is displayed in the **response definition** menu.

Reset:

This option is used to specify the reset mode for the alarm. This is can be configured as Manual reset, Timed reset or Contact closure. These options have the following meanings.

Manual reset

This ensures that an alarm is acknowledged and cleared by the operator before the alarm is removed from the active alarm list.

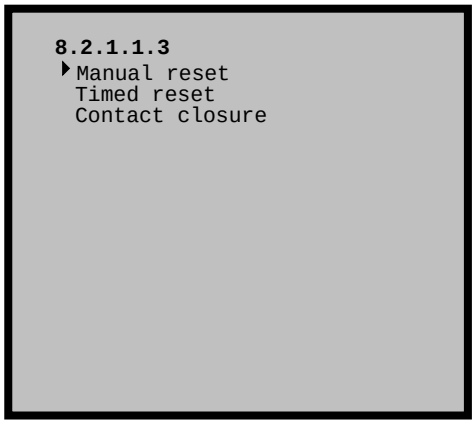
Timed reset

The alarm can be manually acknowledged and cleared, or removed from the list after an elapsed time. The elapsed time is specified using the menu system and can be from 1 second to 18 hours.

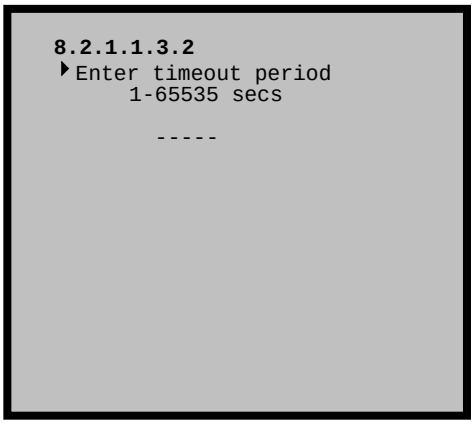
Contact closure

The alarm can be manually acknowledged and cleared, or be removed from the list when the contact is reset.

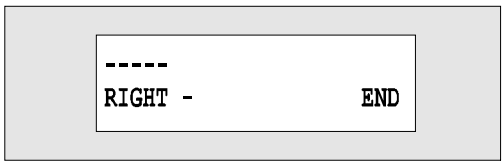
To specify the reset option, select Reset: in the **response definition** menu. This displays the **Reset:** menu:



Select the option that you require and press the ENTER soft key. If you select Manual reset, the **response definition** menu is displayed again. If you select Timed reset, you get the **Timed reset** menu:



The keyboard displays the following message:



The timeout must be a number in the range 1 to 65535. Input the timeout period as described on page 19. The **response definition** menu is displayed with the Reset: field set to

Timed – xxxsecs

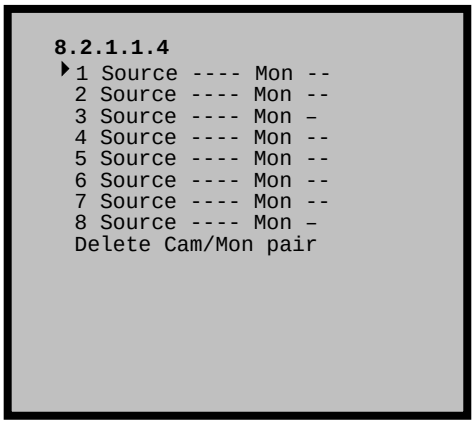
where xxx is the specified value.

If you select Contact closure in the **Reset:** menu, you are returned to the **response definition** menu which displays Contact closure in the Reset: field.

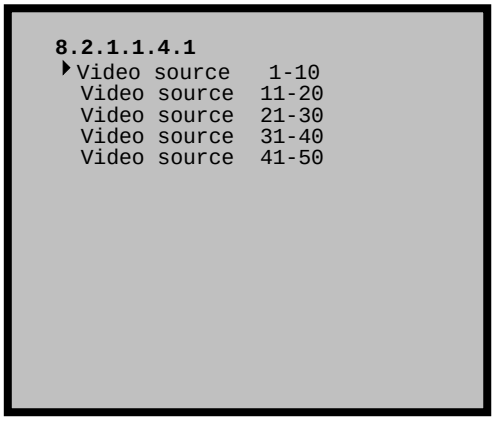
Cam/Mon Pairs

This facility allows you to connect camera inputs to monitor outputs as defined in the camera monitor pairing list which you specify. Up to eight camera/monitor pairs can be implemented for a single alarm. For further information on how this facility works, see page 60.

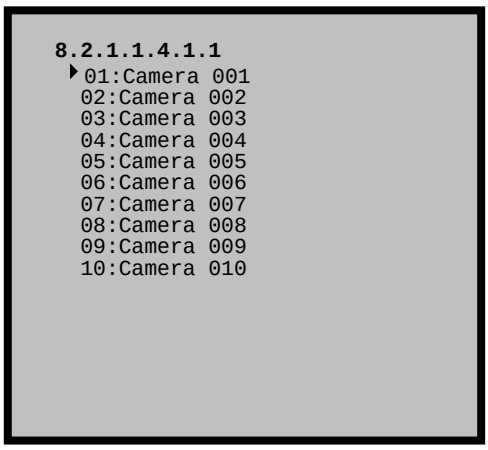
When you select this option, you get the **Cam/Mon pairs** menu:


8.2.1.1.4
1 Source ---- Mon --
2 Source ---- Mon --
3 Source ---- Mon –
4 Source ---- Mon --
5 Source ---- Mon --
6 Source ---- Mon --
7 Source ---- Mon --
8 Source ---- Mon –
Delete Cam/Mon pair

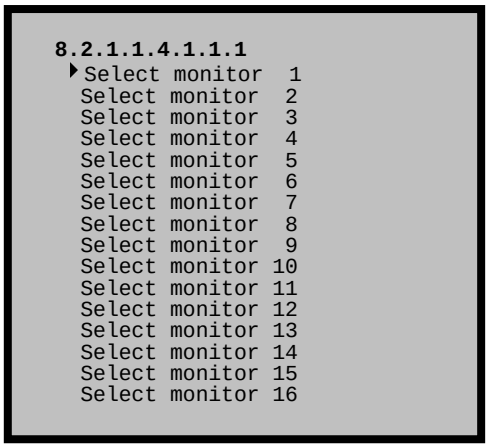
Select the pair that you wish to define and press the ENTER soft key. This displays the **Video source range** menu:



Select the range that contains the camera that you require and press the ENTER soft key. You get a display similar to the following:



Select the camera that you require from the list and press the ENTER soft key. The **Select monitor** menu is displayed:

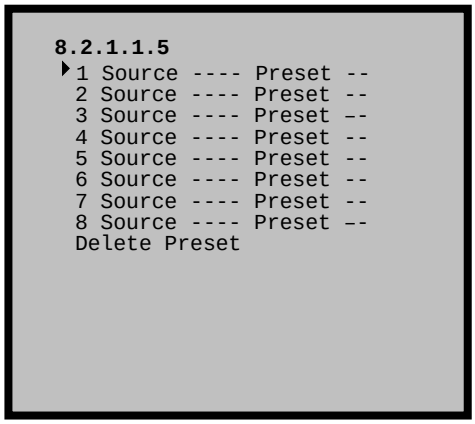


Select the monitor that you require from the list and press the ENTER soft key. The **Cam/Mon pairs** menu is displayed again with the pair definition that you have just made. Continue to define camera/monitor pairs for the alarm as required. When you have finished, press the BACK soft key to return to the **response definition** menu, which will display the number of pairs that have been defined in the Cam/Mon pairs field for the response.

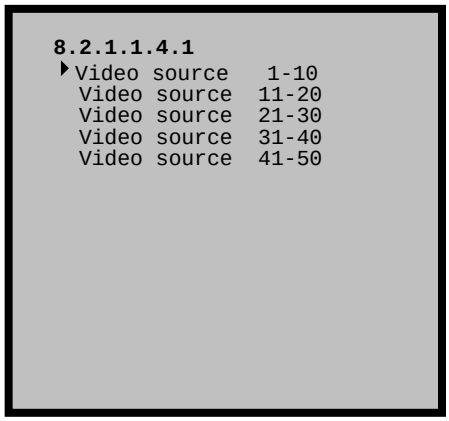
Rx Presets

This option allows you to define up to eight controllable cameras and preset pairs for the response. That is, when the alarm occurs, up to eight cameras will move to the preset positions selected for each individual camera.

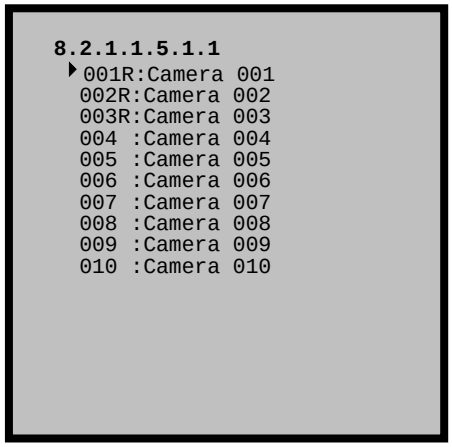
When you select this option, you get the **Rx presets** menu:


8.2.1.1.5
1 Source ---- Preset --
2 Source ---- Preset --
3 Source ---- Preset --
4 Source ---- Preset --
5 Source ---- Preset --
6 Source ---- Preset --
7 Source ---- Preset --
8 Source ---- Preset --
Delete Preset

Select the source/preset pair that you wish to define and press the ENTER soft key. This displays the **Video source range** menu:



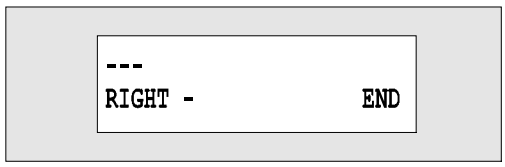
Select the video source range that contains the camera that you require and press the ENTER soft key. You get a display similar to the following:



Note

The controllable cameras are shown with an R after the camera number.

Select the camera that you require from the list and press the ENTER soft key. This displays the **Rx presets** menu again with the camera number inserted in the **Source** field. The Preset field flashes and your keyboard display shows the following:



The preset number must be a number in the range 1 - 128. Input the preset number, as described on page 19.

If the camera that you have selected is not controllable, the following message is displayed in the **Source/preset pairs** menu: **E:No receiver**.

When you have finished setting up the Source/preset pairs for the response, press the BACK soft key to return to the **response definition** menu.

Delete Preset

To delete a Source/preset pair, select Delete Preset in the **Source/preset** menu. Select the pair that you wish to delete and press the ENTER soft key. The Source and Preset fields are cleared for the selected pair.

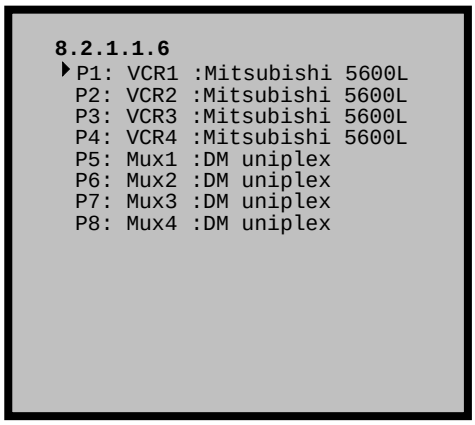
Serial Commands

This option allows you to specify the serial commands that will be issued to the connected devices in the event of the alarm. This facility enables VCRs to be switched to record at selected speeds, or stopped and multiplexers to be switched to LIVE mode or Encode mode at selected speeds.

Note

When the alarm is cleared, the connected devices are returned to their original state prior to the alarm.

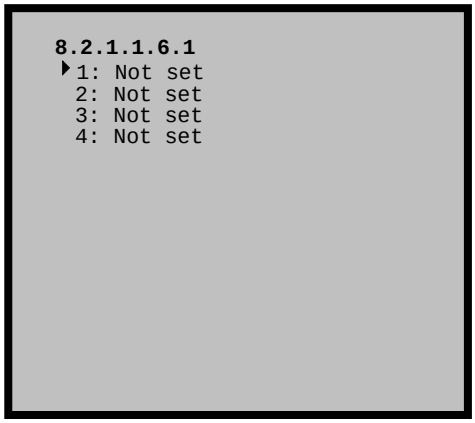
When you select the option, you get the **Serial commands** menu:



Note

This menu only displays connected devices up to where a ‘no device’ entry is found in the list. That is, if P3 in the above Serial Commands menu is set to **No device**, the devices connected to P4 to P8, would not be displayed.

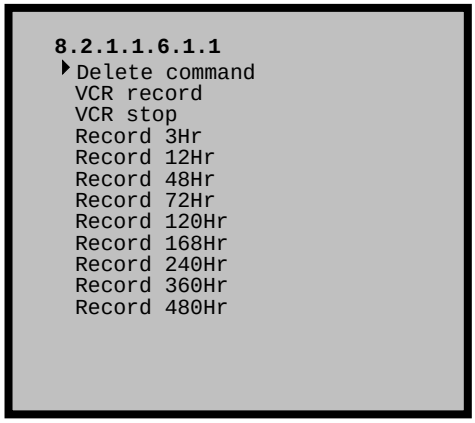
To specify the serial commands for a port connected to a VCR, select the port and press the ENTER soft key. The **Command lines** menu is displayed:



Note

The above menu allows you to input up to 4 commands. For correct operation of the serial commands, they must be input in the correct order, with the first command specified at line 1:, the second command at line 2: etc.

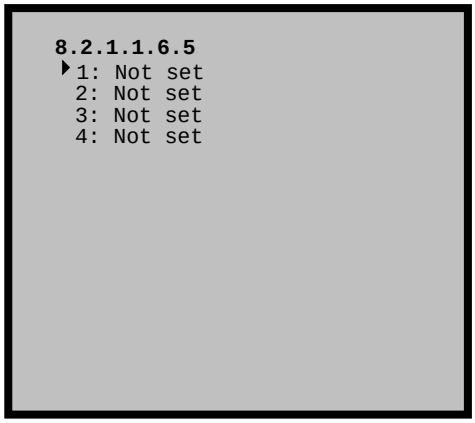
To specify the first command, select line 1: and press the ENTER soft key. This displays the **VCR command** menu:



If you wish the VCR to stop when the alarm occurs, select VCR stop and press the ENTER soft key. The **Command lines** menu is displayed again with the selected command displayed in line 1:.

If you wish the VCR to record when the alarm occurs, the first command (line 1: in the **Command lines** menu) must be specified as the required recording speed (e.g. **Record 3Hr**) and the second command (line 2:), must be specified as **VCR record**.

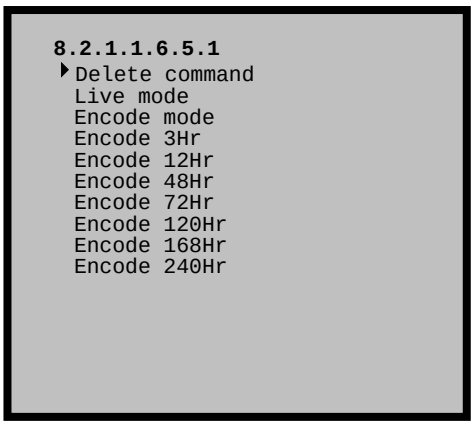
To specify the serial commands for a port connected to a multiplexer, select the port and press the ENTER soft key. The **Command lines** menu is displayed:



Note

The above menu allows you to input up to 4 commands. For correct operation of the serial commands, they must be input in the correct order, with the first command specified at line 1:, the second command at line 2: etc.

To specify the first command, select line 1: and press the ENTER soft key. This displays the **Multiplexer command** menu:



If you wish the multiplexer to switch to LIVE mode when the alarm occurs, select Live mode and press the ENTER soft key. The **Command lines** menu is displayed again with the selected command displayed in line 1:.

If you wish the multiplexer to encode when the alarm occurs, the first command (line 1: in the **Command lines** menu) must be specified as the required encoding speed (e.g. **Encode 3Hr**) and the second command (line 2:), must be specified as **Encode mode**.

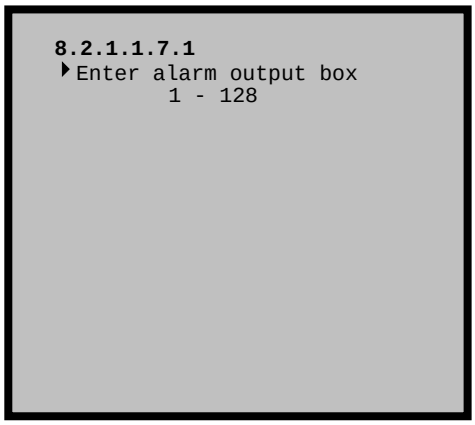
Delete Command

If you wish to delete a command from a command line, select the line in the **Command lines** menu and press the ENTER soft key. Then select **Delete command** from the VCR or multiplexer command menu. The command is deleted and the command line is shown as Not set in the **Command lines** menu.

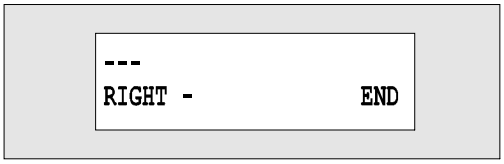
Alarm Output Events

This option is used to define what alarm output contacts are to be activated when the alarm occurs. To specify this, select Alarm output events in the **response definition** menu. The **Alarm output events** menu is displayed:

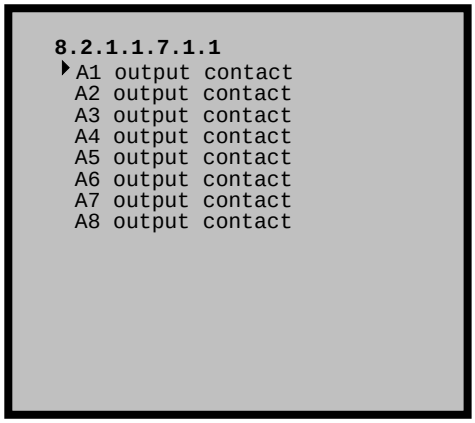
You can specify up to 3 alarm box number and contact number combinations to be activated when the alarm occurs. To specify an event, select the line in the **Alarm output events** menu and press the ENTER soft key. The **Alarm box** menu is displayed:



The keyboard displays the following message:



The alarm box number must be a number in the range 1 - 128. Input the alarm box number, as described on page 19. The **output contacts** menu is displayed:



Select the output contact that you require and press the ENTER soft key. The **Alarm output events** menu is displayed again with the selected Alarm box and Contact numbers inserted.

When you have finished setting up the Alarm output events for the response, press the BACK soft key to return to the **response definition** menu.

Delete Event

To delete an event, select Delete event in the **Alarm output events** menu, then select the required line that you wish to delete. Press the ENTER soft key to delete the alarm output event. **Not defined** is displayed in the deleted line.

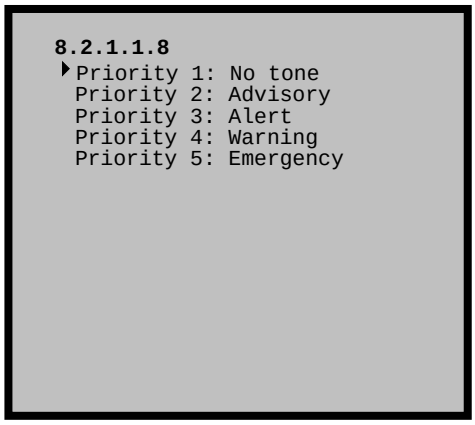
Priority

This option specifies the priority to be allocated to the alarm. The priority of the alarm determines the way the keyboard audio warning sounds and the order in which the alarms are to be displayed in the active alarm list.

The audio warnings for each priority level are:

Priority	Beeps
1	none
2	1 beep per time period
3	2 beeps per time period
4	3 beeps per time period
5	4 beeps per time period (continuous beeping)

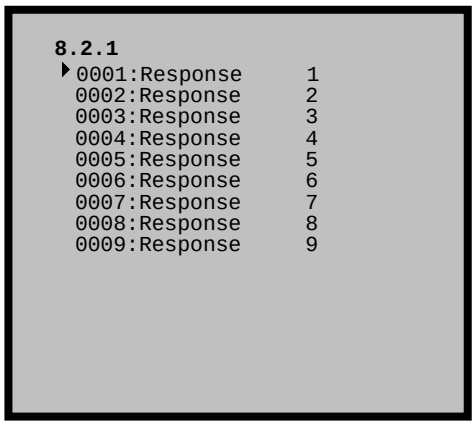
To set the priority level for the response, select Priority in the **response definition** menu. The **Priority** menu is displayed:



Select the priority that you require for this response and press the ENTER soft key. The **response definition** menu is displayed again with the selected priority.

Store Alarm

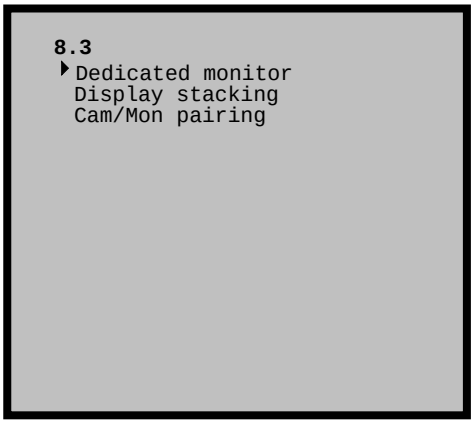
This option is used to store the response that you have just defined. To do this, select the Store alarm option from the **response definition** menu and press the ENTER soft key. The response list menu is displayed:



Press the ENTER soft key to store the response. The **response definition** menu is displayed again.

Mode

This option is used to specify the way in which the alarms are to be displayed. Three options are available, Dedicated monitor, Display stacking and Cam/Mon pairing. To specify the Mode, select Mode from the **Alarm config** menu. The Mode menu is displayed:



These have the following significance.

Dedicated Alarm Monitor Mode

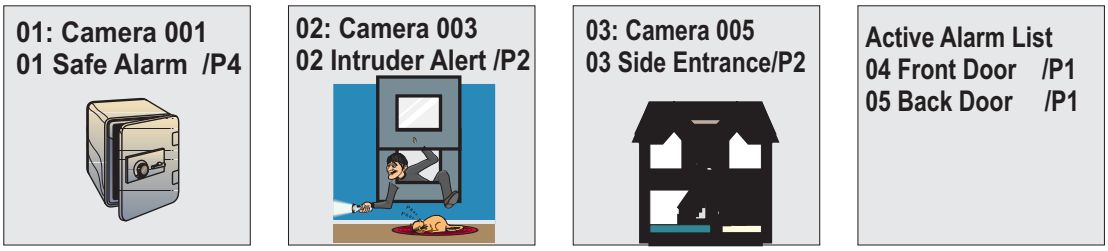
In this mode, there is one monitor (the Alarm Monitor) that displays the title of the each triggered alarm and assigns a temporary alarm number to it. Using this number, each alarm can be acknowledged and cleared. Up to 10 alarms can be displayed in priority order.

Note

To avoid system conflicts, do not set monitor 1 as the Alarm Monitor and do not switch a camera to the Alarm Monitor via an alarm/monitor pairing.

Display Stacking Mode

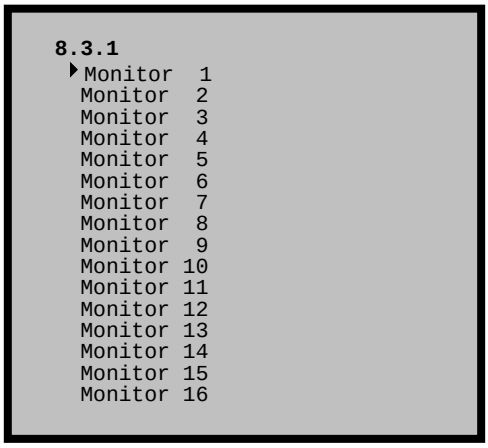
In this mode when the first alarm is triggered, the Alarm Monitor switches to the first camera in the camera/monitor pairing list (see page 50). When the second and third alarms are triggered, these display on the next two monitors. If more alarms are triggered, they are displayed on the next monitor in an Active Alarm list. For example, if the alarm monitor is set to 1, the alarms will display on monitors 1,2,3 and the Active Alarm List will be displayed on monitor 4, as shown below.



Camera Monitor Pairing

As in the Dedicated Alarm Monitor Mode, an Active Alarm List is displayed on the alarm monitor. The camera to monitor pairing of the first alarm in the active alarm list is implemented. This entails connecting the camera inputs to monitor outputs according to the camera/monitor pairing list specified for the response allocated to the alarm. If the alarm is acknowledged or cleared, it will be removed from the Active Alarm List and therefore, the pairings will switch to the next alarm in the list.

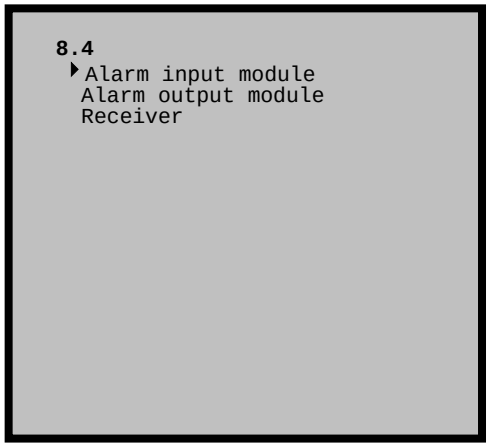
When you select any of the above options from the **Mode** menu, the Monitor list menu is displayed:



Select the alarm monitor that you require and press the ENTER soft key. The **Alarm config** menu is displayed again with the Mode field containing the selection you have made.

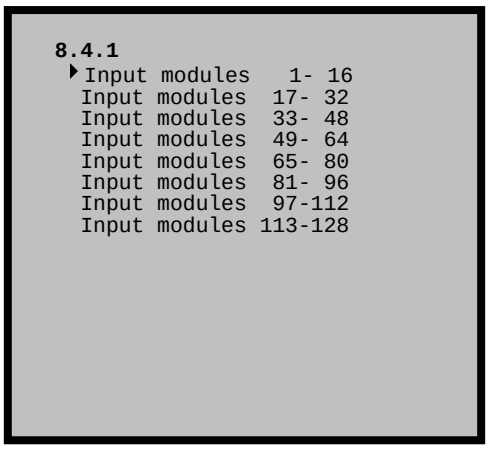
Activate Tamper

This option is used to specify tamper detection for alarm input modules, alarm output modules and for receivers. When you select this option from the **Alarm config** menu, the Activate tamper menu is displayed:

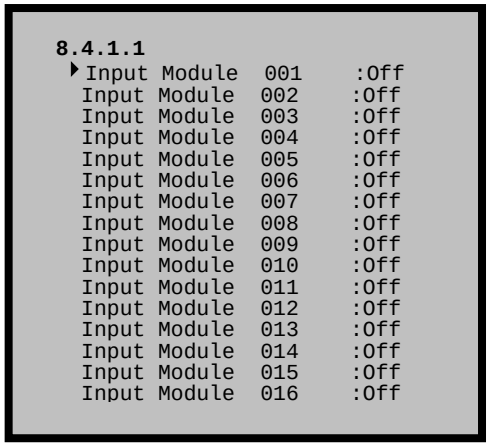


Alarm Input Module

To Activate tamper alarms for Alarm input modules, select Alarm input module from the **Activate tamper** menu. This displays the Input modules range menu:



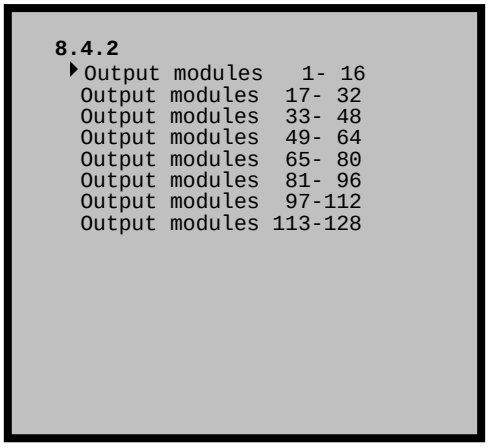
Select the range that contains the required Alarm input module(s), and the **Input module list** menu is displayed for the selected range. For example:



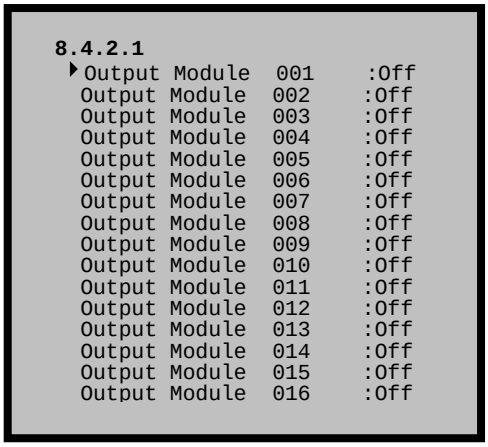
To activate detection, select the module and press the ENTER soft key. Each time you press ENTER, the Input module toggles between On and Off. The On setting means that tamper detection is activated. When you have made your selections, press the BACK soft key to display the **Input modules range** menu again.

Alarm Output Modules

To Activate tamper alarms for Alarm Output modules, select Alarm Output module from the Activate tamper menu. This displays the Output modules range menu:



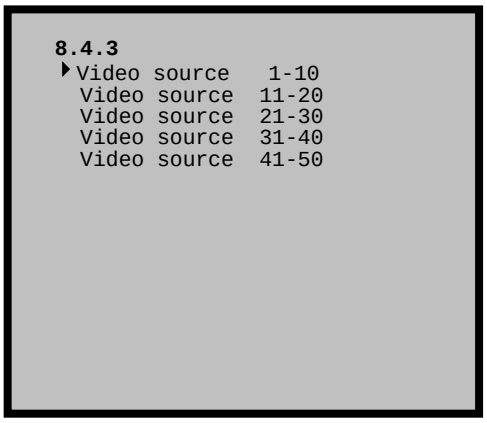
Select the range that contains the required Alarm Output module(s), and the **Output module list** menu is displayed for the selected range. For example:



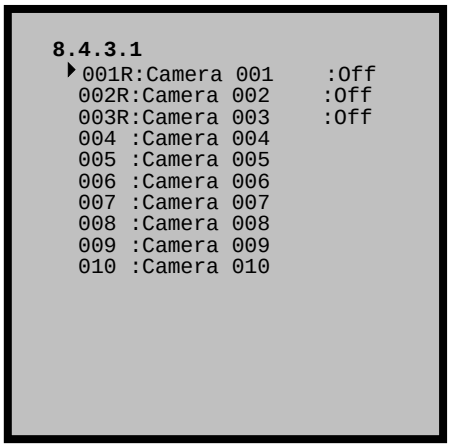
To activate detection, select the module and press the ENTER soft key. Each time you press ENTER, the Output module toggles between On and Off. The On setting means that tamper detection is activated. When you have made your selections, press the BACK soft key to display the **Output modules range** menu again.

Receivers

To activate tamper alarms for Receivers, select Receiver from the **Activate tamper** menu. This displays the Video source range menu:



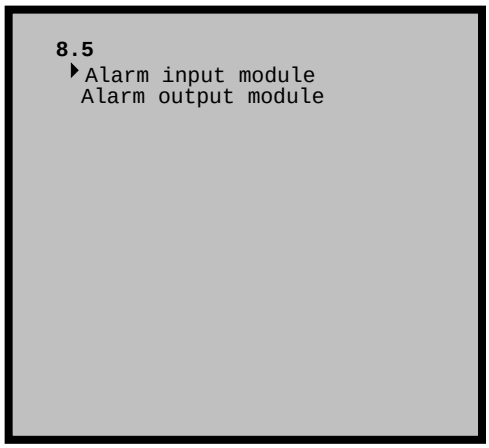
Select the range that contains the required Receiver(s), and the **video source list** menu is displayed for the selected range. For example:



To activate detection, select the receiver and press the ENTER soft key. Each time you press ENTER the receiver toggles between On and Off. The On setting means that tamper detection is activated. When you have made your selections, press the BACK soft key to display the **Video sources range** menu again.

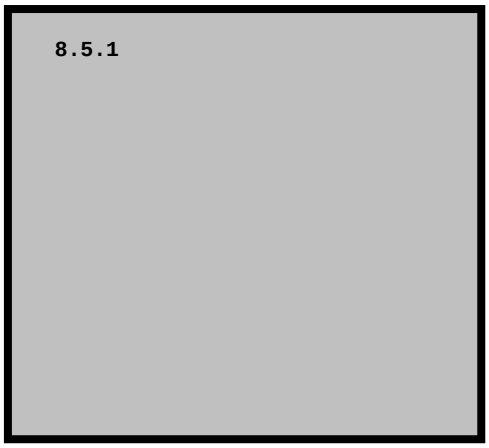
Edit Alarm Module Names

This option is used to edit the names of alarm input and output modules. When you select this option from the **Alarm config** menu, the Edit Alarm Module Names menu is displayed:

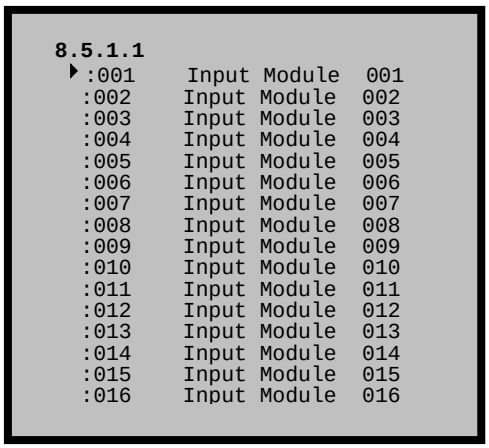


Alarm Input Module

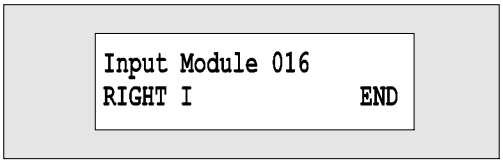
To edit an Alarm input module name, select Alarm input module from the **Edit Alarm Module Names** menu. This displays the Input modules range menu:



Select the range that contains the required Alarm input module(s), and the **Input module list** menu is displayed for the selected range. For example:



To edit the alarm input module name, select the module and press the ENTER soft key.

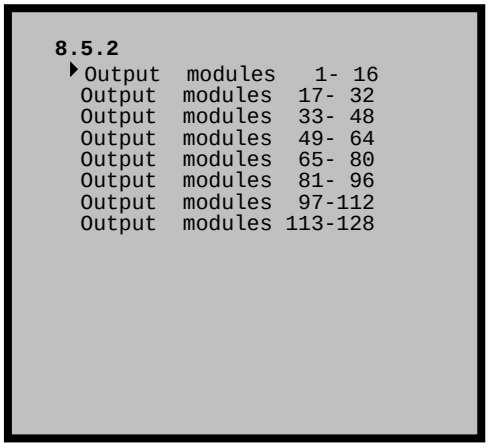


Edit the Alarm Input Module name as described on page 18. When you have finished, it is displayed in the **Input Module** list menu.

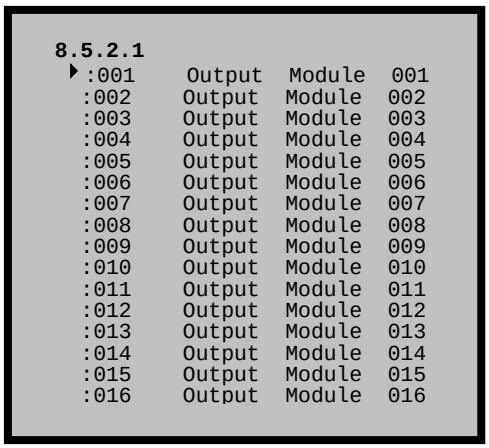
When you have made your edits to the current Input Module list, press the BACK soft key to display the **Input modules range** menu again.

Alarm Output Modules

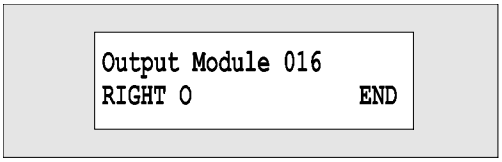
To edit an Alarm output module name, select Alarm output module from the **Edit Alarm Module Names** menu. This displays the Output modules range menu:



Select the range that contains the required Alarm output module(s), and the **Output module list** menu is displayed for the selected range. For example:



To edit the alarm output module name, select the module and press the ENTER soft key.

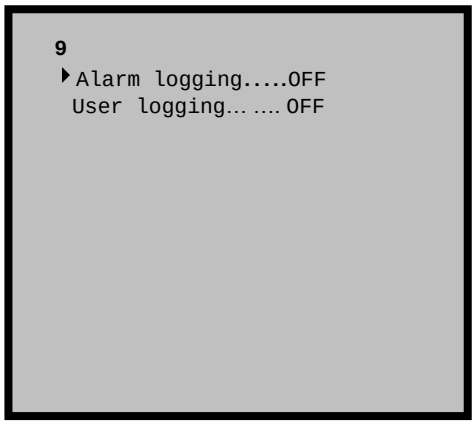


Edit the Alarm Output Module name as described on page 18. When you have finished, it is displayed in the **Output Module** list menu.

When you have made your edits to the current Output Module list, press the BACK soft key to display the **Output modules range** menu again.

3.4.10 Printer Log

This option lets you select which information is to be logged to the printer. If you select this option, you get the **Printer Log** menu:

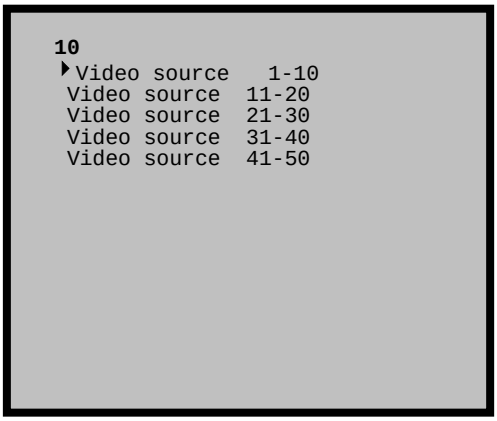


To switch on Alarm logging, select Alarm logging and press the ENTER soft key. Each time you press ENTER, Alarm logging toggles between On and Off. The On setting means that Alarms are logged.

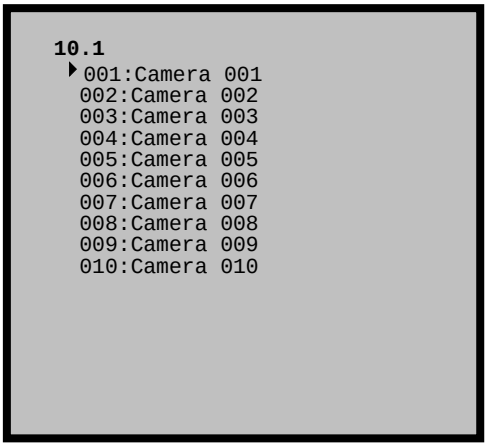
To switch on User logging, select User logging and press the ENTER soft key. Each time you press ENTER, User logging toggles between On and Off. The On setting means that Users are logged.

3.4.11 Video Source Config

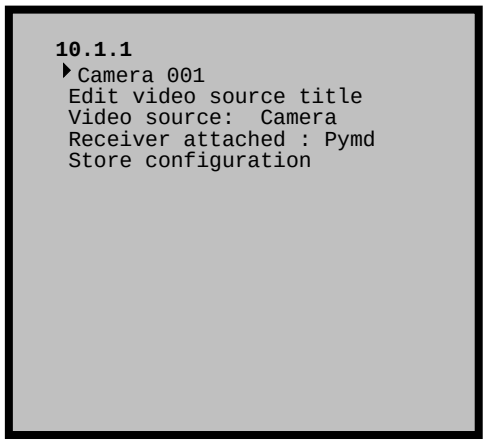
This option lets you configure the system for video sources. When you select this option you get the **Video source range** menu:



Select the range that contains the video source(s) that you wish to configure. The system displays the **Video source list** menu for the selected range. For example:



Select the source that you wish to configure and you get the **Video Source** menu. For example, Camera 001:

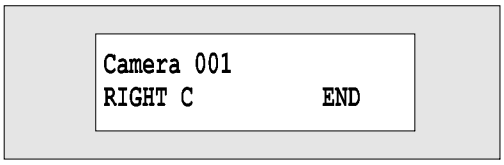


Note

The Receiver attached field is only displayed for cameras.

Video Source Title

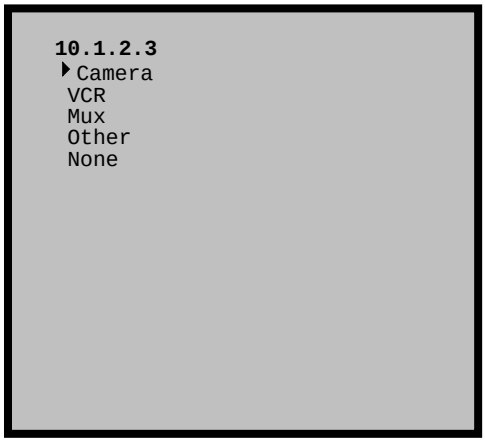
If you wish to change the name used for the video source, select Edit video source title and press the ENTER soft key. The current name flashes in the **video source** menu, and the keyboard displays the following message:



Edit the text as described on page 18. When you have finished specifying the text, it is displayed in the **video source** menu.

Video Source Type

To change the type of video source, select Video source in the **video source** menu. This displays the video source type menu:



Select the video source type that you require and press the ENTER soft key.

Camera

If you select Camera from the **video source type** menu, you get the receivers list menu:

If the camera is controllable, select the type of receiver it uses and press the ENTER soft key. If it is not controllable, select the no receiver option and press the ENTER soft key.

The **Video source** menu is displayed with your selection shown in the Receiver attached field and with Camera shown in the Video source field.

VCR, Mux, Other and None

If you select VCR, Mux, Other or None from the video source type menu, the video source menu is displayed with selection shown in the Video source field.

Note

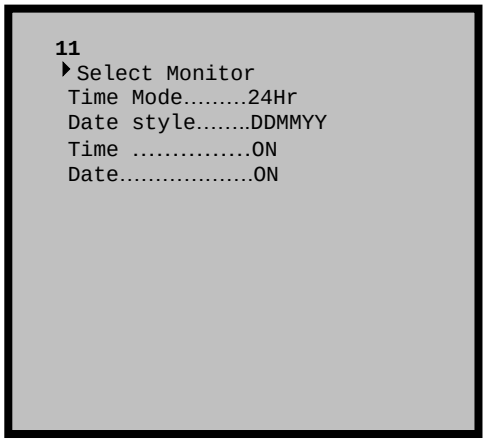
The option None, means that the video input is disabled and video loss is not looked for or detected.

Store Configuration

This option saves the video source that you have configured. When you select this option and press the ENTER soft key, the video source list menu is displayed.

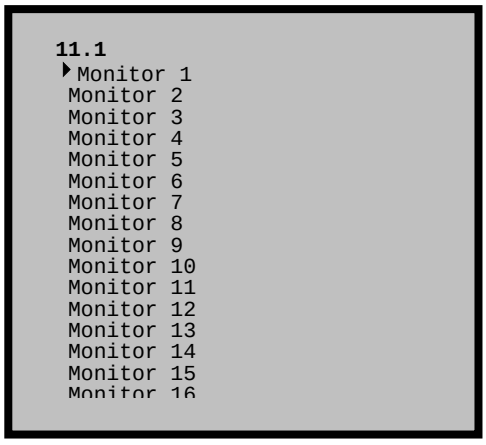
3.4.12 Caption Config

This option allows you to choose whether or not Time and Date information is displayed on selected monitors, and the format for the time and date information. When you select this option, you get the Caption Config Menu:



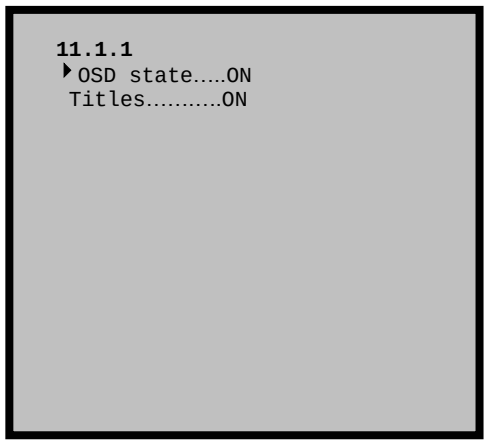
Select Monitor

If you choose Select Monitor, the **Monitors list** menu is displayed:



Select the monitor that you require and press the ENTER soft key.

The **Captions ON/OFF** menu is displayed:



To switch off or on all of the captions on the selected monitor, select OSD state (On Screen Display) and press the ENTER soft key. Pressing ENTER toggles the OSD state between ON and OFF.

To switch the video source title on or off for the selected monitor, select Titles and press the ENTER soft key. Pressing ENTER toggles the Titles state between ON and OFF.

Note

Another way of switching off or on, all the captions for the selected monitor, is to use the 201 **Fn** or 200 **Fn** Keyboard Engineering Settings (see page 75).

Time Mode

This option enables you to choose a 12hr or 24hr time display. To change the time format, select Time Mode in the **Caption Config** menu. Pressing the ENTER soft key toggles between a 12 and 24hr format.

Date Style

This option enables you to choose a DDMMYY or MMDDYY date format display. To change the date format, select Date style in the **Caption Config** menu. Pressing the ENTER soft key toggles between a DDMMYY and MMDDYY format.

Time

This option allows you to switch the Time display on or off for the selected monitor. To do this, select Time in the **Caption Config** menu. Pressing the ENTER soft key toggles between ON and OFF.

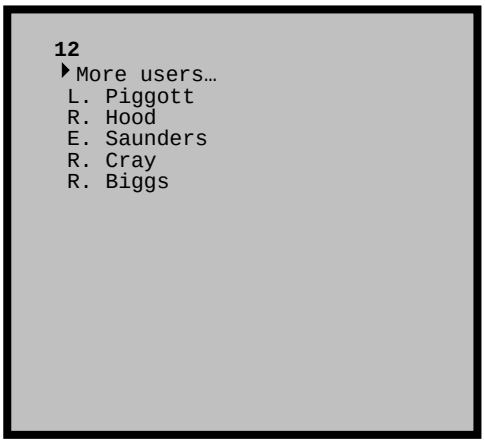
Date

This option allows you to switch the Date display on or off for the selected monitor. To do this, select Date in the **Caption Config** menu. Pressing the ENTER soft key toggles between ON and OFF.

3.4.13 Edit White List

Each time a smart card is programmed for the Pyramid system, the user name gets added to the 'white list'. To stop selected users gaining access to the system, you can delete their name(s) from the white list.

When you select Edit white list, you get the **Edit white list** menu:

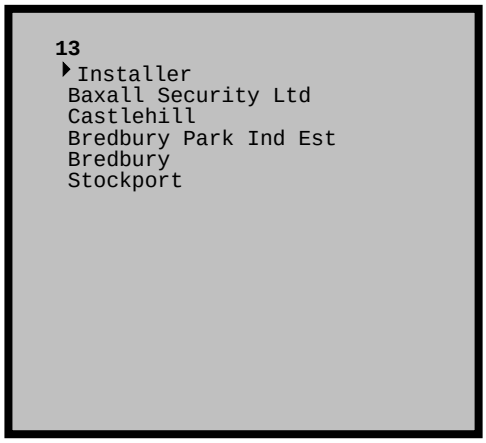


If not all of the users can be displayed on the same screen, you select More users and press the ENTER soft key.

To delete a user, select the user name and press the ENTER soft key. The user name is removed from the list.

3.4.14 Display Installer

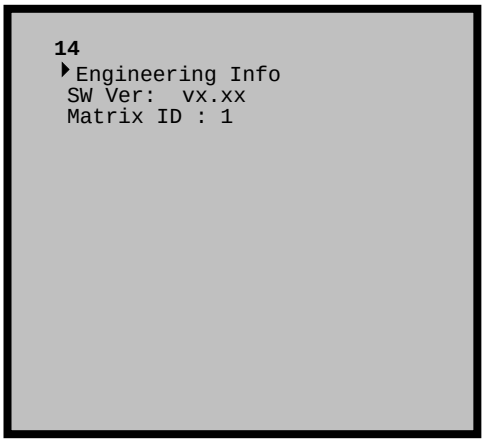
If you select this option, you get the installer's details displayed:



Press the Back soft key to display the **main** menu again.

3.4.15 Engineering Info

If you select this option, the Engineering Information is displayed. This information typically will look like the following:



Where vx.xx is the version number of the software. You cannot edit this information. To return to the **main menu**, press the BACK soft key.

4 Keyboard Engineering Settings

The smart card enables six engineering settings that can be made from the keyboard. These are as follows.

4.1 Self Binding

To access this facility, type 100 on the number keys and press the function key, **Fn.**

This enables the keyboard to operate directly with a receiver, without a Matrix being connected.

4.2 Store The Presets In Non-Volatile Memory

To access this facility, type 120 on the number keys and press the function key, **Fn.**

Once all the presets have been stored to the receiver in the conventional way, you use this facility to store the information into non-volatile memory, and therefore the presets will not be lost in the event of a power failure.

4.3 Store A Nominal Or An Average Auto-Iris Level

To access this facility, type 121 on the number keys and press the function key, **Fn.**

For a 3 Motor Lens, this function stores a nominal or an average auto-iris level within the receiver. The receiver will control the aperture of the lens, and enable the camera to operate in varying light conditions, depending on the setting of this level.

4.4 Turn On The OSD To The Selected Monitor

To access this facility, type 200 on the number keys and press the function key, **Fn.**

This turns on the OSD (on screen display) to the selected monitor.

4.5 Turn Off The OSD To The Selected Monitor

To access this facility, type 201 on the number keys and press the function key, **Fn.**

This turns off the OSD (on screen display) to the selected monitor.

4.6 Reset The Matrix To The Factory Settings

To access this facility, type 251 on the number keys and press the function key, **Fn.** Then re-boot the matrix. When completed, video pictures will be displayed again.

5 General Guidance

This section provides some general guidance for the use of the Pyramid system.

5.1 Smart Cards

The menu system provides facilities for programming new smart cards. Since the smart cards are the primary method for controlling access to the system, it is important that they are rigorously controlled. The following recommendations are made:

1) You should make sure that you know who all the current card holders are, and what privileges they have.

2) It is recommended that in the event of smart cards being lost, that they are deleted immediately from the system (see page 73). This will prevent unauthorised use.

3) Privileges should be granted on a 'need to have' basis. Do not grant privileges that are not required by the particular card holder. In particular, be careful about who is authorised to program new smart cards.

4) Card holders should be discouraged from writing down their PINs, particularly on the cards themselves.

5) Card holders should be encouraged to look after the smart cards – do not leave them lying around – do not use them for other purposes.

6) A record should be made for each card that is programmed, using a form similar to the one given in Appendix A. The completed forms should all be kept in a secure place for future reference.

5.2 Site Configuration Records

It is recommended that configuration for all pyramid installations be recorded and that the record is kept up-to-date. Since some sites are complex, it is important that records are kept both for the initial installation and for on-going configuration changes.

The maintenance of such a record will aid the future support of the system as well as enabling rapid recovery from any future disasters that may occur (e.g. fire).

The most convenient method for recording the current matrix settings is to back them up to a diskette using the Pyramid Installation Tool, PY-INS. This tool also provides the most convenient method for restoring those settings.

However, if the Pyramid Installation Tool is not available, and configuration changes are being made via the menu system, the changes should be noted to enable the changes to be reinstated, should this be necessary.

The configuration records should be kept in secure place with due attention paid in the case of diskettes, to the environmental requirements for their long term storage.

Appendix A – Smart Card Record

Smart Card Record			
System Name			
User Name			
Programmed by		Date	
Card serial number			

Card details		
User name (for display)		
Priority (0-255)		

Privileges			
Keyboard Privileges		**Menu Privileges**	
Select Cameras		Programming smartcards	
Select Monitors*		Setting sequences	
Select Sequence		Installer's details	
Control Cameras		Set time and date	
Control Multiplexers		Serial port config	
Control VCR record		Alarm config	
Control VCR stop		Printer log config	
Control VCR playback		Video source config	
Menu access**		Caption config	
Self binding		Edit white list	
Suspend priority			

* 'Select Monitors' required to access menus

** 'Menu access' must be selected to allow Menu privileges to be allocated

Resource code +					
PIN number					
Group ID +					

+Items reserved for future development. You can set both of these on all smart cards to 100.

Appendix B – Alarm Configuration Sheet

Alarm Input Module No.	Title	Alarm No./response No.				Sheet Date / /			
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
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		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/
		1/	2/	3/	4/	5/	6/	7/	8/

Appendix C – Response Configuration Sheet

Response No.	Caption	Reset Man, Timed, Reset (tick)	Cam/Mon pairs	Rx Presets, number	Serial Commands	Alarm Output Events	Priority 1,2,3,4 or 5
		M[ ] T[ ] C[ ]	/ / / / / / / /			Alarm Output Box/Contact / / /	
		M[ ] T[ ] C[ ]	/ / / / / / /			Alarm Output Box/Contact / / /	
		M[ ] T[ ] C[ ]	/ / / / / / /			Alarm Output Box/Contact / / /	
		M[ ] T[ ] C[ ]	/ / / / / / /			Alarm Output Box/Contact / / /	
		M[ ] T[ ] C[ ]	/ / / / / / /			Alarm Output Box/Contact / / /	